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BEFORE THE ARIZONA CORPORATION COMMISSION

DOUG LITTLE
Chairman

BOB STUMP
Commissioner

BOB BURNS
Commissioner

TOM FORESE
Commissioner

ANDY TOBIN
Commissioner

Arizona Corporation Commission
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IN THE MATTER OF THE APPLICATION OF EPCOR WATER ARIZONA INC. FOR A DETERMINATION OF THE CURRENT FAIR VALUE OF ITS UTILITY PLANT AND PROPERTY AND FOR INCREASES IN ITS RATES AND CHARGES FOR UTILITY SERVICE BY ITS MOHAVE WATER DISTRICT, PARADISE VALLEY WATER DISTRICT, SUN CITY WATER DISTRICT, TUBAC WATER DISTRICT, AND MOHAVE WASTEWATER DISTRICT

DOCKET NO. WS-01303A-14-0010

MOTION TO LIFT STAY AND APPROVE PLAN OF ADMINISTRATION

LEWIS ROCA ROTHGERBER
201 E. Washington St., Suite 1200
Phoenix, AZ 85004-2595

Through this filing, EPCOR Water Arizona Inc. ("Company") moves to lift the Arizona Corporation Commission's ("Commission") stay issued in Decision No. 75268 (Sept. 8, 2015) in light of the Arizona Supreme Court Opinion in Residential Utility Consumer Office v. Arizona Corporation Commission, Case No. CV-15-0281-PR, 240 Ariz. 108 (2016). In that Opinion, the Supreme Court held that the SIB mechanism "complies with the Arizona Constitution's mandate that the Commission determine the fair value of a utility's property when setting rates."

In Decision No. 75268, the Commission, as part of the Company's rate case order, found that the SIB mechanism, as requested by the Company for its Mohave Water District,

Sun City Water District and Paradise Valley Water District, "is in accord with Arizona law and, as a whole, is consistent with the public interest." Decision No. 75238 at 64. However, as the result of the Court of Appeals' decision in August 2015, which vacated the Commission's approval of the SIB mechanism, the Commission stayed the Company's implementation of the SIB mechanisms pending resolution of the appeal. *Id.* As noted above, the Supreme Court vacated the decision of the Court of Appeals and upheld the SIB mechanism as constitutional.

The Company requests that the Commission lift the stay in Decision No. 75268 and also approve the Company's Plans of Administration for the each SIB mechanism, a copy of which is attached as Exhibit A to this filing.[1] Following approval of the Plans of Administration, the Company will submit the information required in the Plans of Administration to allow the Company to implement its first SIB surcharges for the Mohave Water District, Sun City Water District and Paradise Valley Water District. In addition, given the period in which the stay was in effect, the Company requests that the Commission confirm that the one-year period after which the Company may file its first surcharge request for each district commenced upon the date of Decision No. 75268 (September 8, 2015), so that the Company is authorized to file that initial request at any time after the stay is lifted. The Company also requests a waiver of the first six month status filings, as required in the Plans of Administration, given that the stay was in effect during that period.

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[1] As noted in Decision No. 75268, the Company accepted Staff's proposed Plan of Administration ("POA") for the SIB mechanism. Decision No. 75268 at 51. The POA attached as Exhibit A is consistent with the POA proposed by Staff and consistent with the POA approved by the Commission for Chaparral City Water Company in Decision No. 74860 (Dec. 18, 2014).

LEWIS ROCA ROTHGERBER
201 E. Washington St., Suite 1200
Phoenix, AZ 85004-2595

RESPECTFULLY SUBMITTED this 9th day of November, 2016.

LEWIS ROCA ROTHGERBER CHRISTIE, LLP

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Attorneys for EPCOR Water Arizona Inc.

ORIGINAL AND thirteen (13) copies of the foregoing hand-delivered this 9th day of November, 2016, to:

The Arizona Corporation Commission
Utilities Division – Docket Control
1200 W. Washington Street
Phoenix, Arizona 85007

Copy of the foregoing hand-delivered this 9th day of November, 2016, to:

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Copy of the foregoing mailed this 9th day of November, 2016, to:

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EXHIBIT A
Plans of Administration

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PARADISE VALLEY WATER

TABLE OF CONTENTS

EXHIBITS

I. GENERAL DESCRIPTION

This document is the Plan of Administration ("POA") for the System Improvement Benefits ("SIB") Mechanism approved for EPCOR Water Arizona Inc's Paradise Valley Water District ("Paradise Valley Water" or "Company") by the Arizona Corporation Commission ("ACC" or "Commission") in Decision No. 75268 on September 8, 2015. The SIB provides for recovery of the capital costs (return on investment, income taxes and depreciation expense) associated with distribution system improvement projects listed in SIB Plant Table I that have been verified to be completed,[1] net of associated retirements and placed in service per SIB Plant Table II and where costs have not been included in rate base for recovery in Decision No. 75268. Any expenditures offset by contributions in aid of construction or advances in aid of construction are not eligible for inclusion of the SIB.

II. DEFINITIONS

- NARUC – National Association of Regulatory Utility Commissioners.
- SIB – System Improvement Benefit mechanism to be implemented between rate proceedings to support investment in plant recorded I SIB Eligible NARUC accounts.
- SIB Eligible Plant – Investments in plant recorded in SIB Eligible NARUC accounts.
- SIB Eligible NARUC accounts:
  - NARUC Account No. 309 – Supply Mains
  - NARUC Account No. 331 – Transmission and Distribution Mains
  - NARUC Account No. 333 – Services
  - NARUC Account No. 334 – Meters and Meter Installations;
  - NARUC Account No. 335 – Hydrants
- SIB Plant Table I (Excerpt attached as Exhibit 1) [2] – The schedule of planned SIB eligible projects that was approved in the Company's most recent rate case. As used

[1] Acceptable form of verifications may include the Maricopa County Environmental Services Department Approval of Construction, Professional Engineer's Certificate of Completion, etc.

[2] See Company filing of March 7, 2014.

herein, this term refers to the most recently updated SIB Plant Table I available unless reference is made to a particular Commission decision.

- SIB Plant Table II – The schedule of completed and verified SIB eligible projects from the latest Commission approved SIB Plant Table I and associated retirements.

- Total Revenue Requirement –The revenue requirement approved in Decision No. 75268, plus the SIB Revenue Requirement.

- SIB Revenue Requirement – The revenue requirement equal to the return on investment, income taxes and depreciation expense necessary to support the SIB Plant Table II amounts.

- SIB Revenue Requirement Efficiency Credit – An amount equal to 5 percent of the SIB Revenue Requirement.

- SIB Authorized Revenue – Amount equal to the SIB Revenue Requirement less the SIB Revenue Requirement Efficiency Credit plus any SIB True up Adjustment.

- Gross SIB Surcharge – Amount to be shown on customers' bills based on meter sizes without consideration to the SIB Surcharge Efficiency Credit.

- SIB Surcharge Efficiency Credit – An amount equal to 5 percent of the Gross SIB Surcharge to be shown on customers' bills.

- SIB Surcharge - The amount equal to the Gross SIB Surcharge less the SIB Surcharge Efficiency Credit to be charged, based on meter size, calculated to recover the SIB Authorized Revenue. The SIB Surcharge is to be shown as a separate line item on customers' bill.

- SIB True- up Adjustment – An amount to adjust for over- or under-collection of the SIB Authorized Revenues as compared with the total SIB Surcharges collected for the preceding 12 month period. Each SIB true-up shall also analyze the cumulative over- or under-collections to include a comparison of all past SIB Authorized Revenues, total SIB Surcharge collections, and prior true-ups to be used in calculation of the SIB true-up surcharge or credit by meter size,

III. SIB RELATED FILINGS

A. Progress Reports – Once a SIB is approved in a decision, the Company must file with Docket Control semi-annual status reports delineating the status of all SIB Eligible Plant, on a project by project basis as listed in the latest Commission approved SIB

Plant Table I. The initial semi-annual status report shall include only those projects from the initial SIB Plant Table I which the Company has designated as most likely to be completed in the first 12 months.

B. Reconciliation and True Up - Once a SIB Surcharge is implemented, the Company must file annually to true up its SIB Surcharge collections over the preceding twelve months with the SIB Authorized Revenue for that period and establish a surcharge or credit to true up over or under collections, regardless of whether it seeks a new surcharge. The filing dates for these annual true-ups shall be as established in the Commission's Decision approving the SIB Surcharge.

C. SIB Surcharge Requests- To obtain its SIB Surcharge the Company must file the following:

1. SIB Plant Table II[3] (with supporting information and documentation), showing the SIB eligible projects completed for which the Company seeks cost recovery. Such projects must:

    a. be projects listed in the SIB Plant Table I;

    b. have been completed by the Company;

    c. have been verified; and

    d. be actually serving customers.

2. A summary of Commission approved SIB-eligible projects contemplated for the next twelve (12)-month SIB surcharge period from SIB Plant Table I[4] from Decision No. 75268 to allow the Commission to establish the latest SIB Plant Table I.

3. SIB Schedule A (sample attached as Exhibit 3), showing a calculation of the SIB Revenue Requirement and SIB Revenue Requirement Efficiency Credit, SIB Authorized Revenue, Gross SIB Surcharge, SIB Surcharge Efficiency Credit, and the SIB Surcharge. Schedule A shall be supported by revenue requirements

[3] Sample attached as Exhibit 2

[4] Beginning with its SIB Surcharge Request filing for the second 12-month surcharge period, the Company may request a change from the estimated Cost/Unit (approved in the Company's most recent rate case Decision) due to inflation using the latest calendar year Consumer Price Index (see sample attached as Exhibit 1). This may be done only if the original SIB Plant Table I unit cost did not account for inflation.

schedules supporting the revenue requirements in Decision No. 75268 and the pro-forma revenue requirements including the effects of SIB Eligible Plant.

4. Schedule B (sample attached as Exhibit 4) showing the overall SIB True- up Adjustment calculation for the prior twelve-month SIB Surcharge period, as well as the individual SIB True-up Adjustment for each meter size.

5. SIB Schedule C (sample attached as Exhibit 5) showing the effect of the SIB Surcharge on a typical residential customer bill for both median and average usage.

6. SIB Schedule D (sample attached as Exhibit 6) which shall include an analysis of the impact of completed SIB Eligible Plant projects on the fair value rate base, revenue, and the fair value rate of return. The Company shall also file the following as part of SIB D Schedule:

   a. the most current balance sheet at the time of the filing;
   b. the most current income statement;
   c. an earnings test;
   d. a rate review schedule (including the incremental and pro forma effects of the proposed increase);
   e. an adjusted rate base schedule; and
   f. a Construction Work in Progress ledger for each project showing accumulation of charges by month and paid contractor invoices including a summary page showing the calculation of the SIB eligible rate base and depreciation expense net of associated retirements

D. The Company will maintain and provide to the Commission's Utilities Division (Staff) and the Residential Utility Consumer Office (RUCO) schedules in Microsoft Excel format (with all formulae intact) supporting the revenue requirement approved in Decision No. 75268, and the effects of completed SIB eligible plant for the current SIB Surcharge Request and any previously approved SIB Surcharge and SIB True-up Adjustment Requests.

E. The Company may make its initial SIB Surcharge Request through Docket Control no earlier than twelve months after the entry of Decision No.75268.

F. The Company may make no more than one SIB Surcharge Request every twelve months with no more than five SIB Surcharge Requests between rate case decisions. A True-up must be filed with each SIB Surcharge Request, except the first.

G. Unless otherwise authorized by the Commission, the Company shall be required to file its next general rate case no later than June 30, 2021, with a test year ending no later than December 31, 2020.

H. Any SIB Surcharges that are in effect shall be reset to zero upon the date new rates become effective in the Company's next general rate case.

IV. SURCHARGE CALCULATIONS

A. Calculations of Amounts to Be Collected By the SIB Surcharge

1. The amount to be collected by the SIB Authorized Revenue shall be equal to the SIB Revenue Requirement minus the SIB Revenue Requirements Efficiency Credit plus any SIB True up Adjustment.

   For purposes of calculation the SIB Revenue Requirement:

   a. The required rate of return is equal to the overall rate of return authorized in Decision No. 75268.

   b. The gross revenue conversion factor/tax multiplier is equal to the gross revenue conversion factor/tax multiplier approved in Decision No. 75268; and

   c. The applicable depreciation rate(s) is equal to the depreciation rate(s) approved in Decision No. 75268.

2. The SIB plant unit cost to be used in calculating the SIB Revenue Requirement shall be the lesser of the installed SIB plant unit cost listed in SIB Plant Table II or 110 percent of the SIB plant estimated unit cost listed in the latest Commission approved SIB Plant Table I.

3. The amount to be collected by each SIB Surcharge Request shall be capped annually at five percent of the revenue requirement authorized in Decision No. 75268.

B. Reconciliation And True-Ups

1. The revenue collected by the total SIB Surcharges over the preceding twelve months shall be trued-up and reconciled with the SIB Authorized Revenue for that period.

2. A new SIB Surcharge shall be combined with an existing SIB Surcharge such that a single SIB surcharge and SIB Efficiency Credit are shown on a customer's bill.

3. For each twelve (12) month period that a SIB surcharge is in effect, the Company shall reconcile the amounts collected by the SIB Surcharge with the SIB Authorized Revenue, for that twelve (12)-month period, consistent with Schedule B, attached hereto as Exhibit 4.

4. Any under- or over-collected SIB Authorized Revenues shall be recovered or refunded, without interest, over a twelve-month period by means of a SIB True-up Surcharge or Credit.

5. Starting with the second annual SIB Surcharge, where there are over- or under-collected balances, such over- or under-collected balances shall be carried over to the next year, and considered in the calculation of the new SIB True-up Surcharge or Credit. If, after the five-year period there remains an over- or under-collected balance, such balance shall be reset to zero, and addressed in the next rate case.

C. Earnings Test

1. Once a SIB Surcharge is in effect, the Company shall be required to perform an annual earnings test calculation for each SIB Surcharge Request to determine whether the actual rate of return reflected by the operating income for the affected system or division for the relevant 12- month period exceeded the most recently authorized fair value rate of return for the affected system or division.

2. The earnings test shall be:

   a. based on the most recent available operating income,

   b. adjusted for any operating revenue and expense adjustments adopted in the most recent general rate case; and

   c. based on the rate base adopted in the most recent general rate case, updated to recognize changes in plant, accumulated depreciation, contributions in aid of construction, advances in aid of construction, and accumulated deferred income taxes through the most recent available financial statement (quarterly or longer).

V. ADDING PROJECTS TO SIB TABLE I UNDER EMERGENCY CIRCUMSTANCES

A. The Company may seek Commission approval to add projects in SIB Plant Table I only in the event of emergency circumstances. No such changes may be made without Commission approval.

B. Any addition to SIB Plant Table I must be plant investment that maintains or improves existing customer service, system reliability, integrity and safety. Eligible plant additions are limited to plant replacement projects. The costs of extending facilities or capacity to serve new customers are not recoverable through the SIB mechanism.

C. To be eligible for SIB treatment, a project must be SIB Eligible Plant.

D. SIB Eligible Plant must satisfy at least one of the following criteria:

1. Water loss for the system exceeds ten (10) percent, as calculated by the following formula: ((Volume of Water Produced and/ or Purchased) - (Volume of Water Sold + Volume of Water Put to Beneficial Use)) divided by (Volume of Water Produced and/or Purchased). If the Volume of Water Put to Beneficial Use is not metered, it shall be established in a reliable, verifiable manner.

2. Plant assets that have remained in service beyond their useful service lives (based on the Company's system's authorized utility plant depreciation rates) and are in need of replacement due to being worn out or in a deteriorating condition through no fault of the Company;

3. Any other engineering, operational or financial justification supporting the need for a plant asset replacement, other than the Company's negligence or improper maintenance, including, but not limited to:

    a. A documented increasing level of repairs to, or failures of, a plant asset justifying its replacement prior to reaching the end of its useful service life (e.g. black poly pipe);

    b. Assets that are required to be moved, replaced or abandoned by a governmental agency or political subdivision if the Company van show that it has made a good faith effort to seek reimbursement for all or part of the costs incurred.

VI. SIB SURCHARGE RATE DESIGN

A. The SIB Surcharge rate design shall be calculated as follows:

1. The SIB Surcharge shall be a fixed monthly surcharge containing a Gross SIB Surcharge and the SIB Surcharge Efficiency Credit as its two components.

2. The SIB Surcharge shall be calculated by dividing the SIB Authorized Revenue by the number of equivalent active 5/8-inch meters at the end of the most recent twelve (12) month period, and shall increase with meter size based on the following meter capacity multipliers:

5/8-inch x 3/4-inch	1.0 times
3/4-inch	1.5 times
1-inch	2.5 times
1 1/2-inch	5 times
2-inch	8 times
3-inch	16 times
4-inch	25 times
6-inch	50 times
8-inch	80 times
10-inch & above	115 times

B. The SIB Surcharge shall apply to all of the Company's metered customers, including private fire service customers.

VII. SIB SURCHARGE NOTICE REQUIREMENTS

A. Thirty days prior to filing each application to implement a SIB Surcharge, the Company shall file a proposed form of notice to Staff for review, and a Summary of what the Company will be requesting in the application. Once the notice is approved by Staff, the Company shall provide a copy of the approved notice to its customers via newsletter or bill insert. After providing notice, the Company shall fie a copy of the notice and a description of when and how it provided notice with each application to implement a SIB surcharge. The Summary and Notice shall include at least the following information:

1. The individual Gross SIB Surcharge, by meter size;

2. The individual SIB Surcharge Efficiency Credit, by meter size;

3. The SIB Surcharge, by meter size; and

4. Directions to where the customer may obtain a summary of the projects included in the current SIB Surcharge request, including a description of each project and its cost.

B. A SIB Surcharge shall not become effective until approved by the Commission.

C. The Company shall provide a proposed order for the Commission's consideration.

D. The Company shall notice its customer of the SIB Surcharge approved herein as soon as possible in a form acceptable to Staff and consistent with the notice requirements of Decision 75268.

E. The Company shall not implement the SIB Surcharge until 30 days after having filed documentation in Docket Control providing the date when all effected customers have been notified of the Commission approved SIB Surcharge.

EXHIBIT 1

SIB Table I

(Exhibit CC-2-C) EPCOR

Water (USA) Inc.

Paradise Valley Water District

PWS ID No. 0407056

February 28, 2014

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 1-1

2015 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-1	333	service lines	39	33-1" 4-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Keim Dr	12/2015	n/a	$151,879	Replace 33-1", 4-1.5", and 2-2" (39 total) residential services between McDonald Dr, Keim Dr, 40th St, and 44th St. These services are a priority for replacement because they are galvanized steel pipe and will be about 58 years old in 2015. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-1 in Exhibit CC-1-C for more detail.
S-2	333	service lines	23	18-1" 3-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Hoghan Dr	12/2015	n/a	$89,720	Replace 18-1", 3-1.5", and 2-2" (23 total) residential services north of Keim Dr between 44th St and 40th St. These services are a priority for replacement because they are galvanized steel pipe and will be about 58 years old in 2015. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth See Section 1 narrative and Map No. S-2 in Exhibit CC-1-C for more detail.

S-3	333	service lines	55	52-1" 3-1.5"	Copper	1"-$3,881 1.5"-$3,947	Lincoln Dr	12/2015	n/a	$213,642	Replace 52-1" and 3-1.5" (55 total) residential services north of Lincoln Dr between 40th St and Hillside Dr. These services are a priority for replacement because they are galvanized steel pipe and will be about 55 years old in 2015. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth See Section 1 narrative and Map No. S-3 in Exhibit CC-1-C for more detail.
S-4	333	service lines	45	37-1" 5-1.5" 3-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Highlands Dr	12/2015	n/a	$175,362	Replace 37-1", 5-1.5", and 3-2" (45 total) residential services on Highlands Dr and Lamar Rd between 40th St and Hillside Dr. These services are a priority for replacement because they are galvanized steel pipe and will be about 55 years old in 2015. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-4 in Exhibit CC-1-C for more detail.
S-5	333	service lines	47	39-1" 5-1.5" 3-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Upper Ridge Way	12/2015	n/a	$183,124	Replace 39-1", 5-1.5", and 3-2" (47 total) residential services on Lakeside Ln and Sandy Mountain Rd between 40th St and Upper Ridge Way. These services are a priority for replacement because they are galvanized steel pipe and will be about 55 years old in 2015. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-5 in Exhibit CC-1-C for more detail.
Total			**209**							**$813,727**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 1-2

2016 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-6	333	service lines	35	29-1" 4-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Black Rock Trl	12/2016	n/a	$136,356	Replace 29-1", 4-1.5", and 2-2" (35 total) residential services along Black Rock Trl and Clearwater Pkwy north of Lakeside Ln. These services are a priority for replacement because they are galvanized steel pipe and will be about 55 years old in 2016. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-6 in Exhibit CC-1-C for more detail.
S-7	333	service lines	31	25-1" 4-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Red Ledge Dr	12/2016	n/a	$120,833	Replace 25-1", 4-1.5", and 2-2" (31 total) residential services along Red Ledge Dr, Clearwater Pkwy, and Highcliff Dr. These services are a priority for replacement because they are galvanized steel pipe and will be about 56 years old in 2016. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-7 in Exhibit CC-1-C for more detail.

S-8	333	service lines	36	30-1" 4-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Praying Monk Rd	12/2016	n/a	$140,237	Replace 30-1", 4-1.5", and 2-2" (36 total) residential and commercial services along Praying monk Rd, Joshua Tree Ln, and Lincoln Dr between Tatum and Desert Fairways. These services are a priority for replacement because they are galvanized steel pipe and will be about 62 years old in 2016. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-8 in Exhibit CC-1-C for more detail.
S-9	333	service lines	43	42-1" 1-2"	Copper	1"-$3,881 2"-$4,013	Camelback Inn	12/2016	n/a	$166,940	Replace 42-1" and 1-2" (43 total) residential and commercial services in the Camelback Inn north of Lincoln. These services are a priority for replacement because they are galvanized steel pipe and will be about 50 years old in 2016. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-9 in Exhibit CC-1-C for more detail.
S-10	333	service lines	40	38-1" 2-2"	Copper	1"-$3,881 2"-$4,013	Lost Dutchman Dr	12/2016	n/a	$155,364	Replace 38-1" and 2-2" (40 total) residential and commercial services along Lost Dutchman Dr, Smoke Tree Ln, Cactus Wren Rd, and 59th St. These services are a priority for replacement because they are galvanized steel pipe and will be about 52 years old in 2016. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-10 in Exhibit CC-1-C for more detail.
S-11	333	service lines	27	24-1" 3-2"	Copper	1"-$3,881 2"-$4,013	Berridge Ln	12/2016	n/a	$104,980	Replace 24-1" and 3-2" (27 total) residential and commercial services along Berridge ln and Sundown Dr. These services are a priority for replacement because they are galvanized steel pipe and will be about 58 years old in 2016. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-11 in Exhibit CC-1-C for more detail.
Total			**212**							**$824,710**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 1-3

2017 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-12	333	service lines	38	34-1" 4-1.5"	Copper	1"-$3,881 1.5"-$3,947	Cattletrack Rd	12/2017	n/a	$147,734	Replace 34-1" and 4-1.5" (38 total) residential and commercial services between Cattletrack Rd, 74th St, Lincoln Dr, and Whispering Winds Rd. These services are a priority for replacement because they are galvanized steel pipe and will be about 40 years old in 2017. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-12 in Exhibit CC-1-C for more detail.
S-13	333	service lines	33	29-1" 4-2"	Copper	1"-$3,881 2"-$4,013	73rd Way	12/2017	n/a	$128,330	Replace 29-1" and 4-2" (33 total) residential and commercial services between 73rd Way, Scottsdale Rd, Lincoln Dr, and Citrus Way. These services are a priority for replacement because they are galvanized steel pipe and will be about 45 years old in 2017. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-13 in Exhibit CC-1-C for more detail.

S-14	333	service lines	33	33-1"	Copper	1"-$3,881	Balfour Rd	12/2017	n/a	$128,066	Replace 40-1" residential services south of Vista Dr between 68th St and Scottsdale Rd. These services are a priority for replacement because they are galvanized steel pipe will be about 59 years old in 2017. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-14 in Exhibit CC-1-C for more detail.
S-15	333	service lines	21	16-1" 3-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Paradise Canyon Rd	12/2017	n/a	$81,959	Replace 16-1", 3-1.5", and 2-2" (21 total) residential services along Las Brisas Ln and Paradise Canyon Rd. These services are a priority for replacement because they are galvanized steel pipe and will be about 46 years old in 2017. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-15 in Exhibit CC-1-C for more detail.
S-16	333	service lines	22	17-1" 3-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	54th St	12/2017	n/a	$85,840	Replace 17-1", 3-1.5", and 2-2" (22 total) residential services along 54th St, Desert Park Ln, Roadrunner Rd, and Desert Vista Rd. These services are a priority for replacement because they are galvanized steel pipe and will be about 43 years old in 2017. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-16 in Exhibit CC-1-C for more detail.
S-17	333	service lines	32	26-1" 4-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Shadow Mountain Rd	12/2017	n/a	$124,714	Replace 26-1", 4-1.5", and 2-2" (32 total) residential services between Shadow Mountain Rd, Tatum Blvd, Roadrunner Rd, and Prickly Pear Ln. These services are a priority for replacement because they are galvanized steel pipe and will be about 61 years old in 2017. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-17 in Exhibit CC-1-C for more detail.

S-18	333	service lines	60	51-1" 6-1.5" 3-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Crestview Dr	12/2017	n/a	$233,640	Replace 51-1", 6-1.5", and 3-2" (60 total) residential services between Desert Jewel Dr, Roadrunner Rd, Tatum Blvd, and Shadow Mountain Rd. These services are a priority for replacement because they are galvanized steel pipe and will be about 47 years old in 2017. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-18 in Exhibit CC-1-C for more detail.
Total			**239**							**$930,283**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 1-4

2018 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-19	333	service lines	21	16-1" 3-1.5" 2-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Clearwater Pkwy	12/2018	n/a	$81,959	Replace 16-1", 3-1.5", and 2-2" (21 total) residential services Clearwater Pkwy and Tatum Blvd. These services are a priority for replacement because they are galvanized steel pipe and will be about 63 years old in 2018. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-19 in Exhibit CC-1-C for more detail.
S-20	333	service lines	65	54-1" 7-1.5" 4-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Lakeside Ln	12/2018	n/a	$253,242	Replace 54-1", 7-1.5", and 4-2" (65 total) residential services along Lakeside Ln, Moonlight Way, Clearwater Pkwy, and Brookview Way. These services are a priority for replacement because they are galvanized steel pipe and will be about 62 years old in 2018. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-20 in Exhibit CC-1-C for more detail.

S-21	333	service lines	43	35-1" 5-1.5" 3-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Crystal Ln	12/2018	n/a	$167,600	Replace 35-1", 5-1.5", and 3-2" (43 total) residential services along Crystal Ln, Sparkling Ln, and Moonlight Way. These services are a priority for replacement because they are galvanized steel pipe and will be about 55 years old in 2018. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-21 in Exhibit CC-1-C for more detail.
S-22	333	service lines	45	37-1" 5-1.5" 3-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Desert Fairways Dr	12/2018	n/a	$175,362	Replace 37-1", 5-1.5", and 3-2" (45 total) residential services along Desert Fairways Dr, Palo Verde Pl, Pepper Tree Ln, and Arroyo Rd. These services are a priority for replacement because they are galvanized steel pipe and will be about 65 years old in 2018. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-22 in Exhibit CC-1-C for more detail.
S-23	333	service lines	58	49-1" 6-1.5" 3-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Joshua Tree Ln	12/2018	n/a	$225,878	Replace 49-1", 6-1.5", and 3-2" (58 total) residential services between Indian Bend Rd, Lincoln Dr, 60th St, and Lost Dutchman Dr. These services are a priority for replacement because they are galvanized steel pipe and will be about 60 years old in 2018. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-23 in Exhibit CC-1-C for more detail.
Total			**232**							**$904,042**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 1-5

2019 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-24	333	service lines	62	51-1" 7-1.5" 4-2"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	51st Pl	12/2019	n/a	$241,600	Replace 51-1", 7-1.5", and 4-2" (62 total) residential services along 51st Pl, Valley Vista Ln, and Rovey Ave. These services are a priority for replacement because they are galvanized steel pipe and are will be about 66 years old in 2019. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-24 in Exhibit CC-1-C for more detail.
S-25	333	service lines	63	63-1"	Copper	1"-$3,881	Marston Dr	12/2019	n/a	$244,490	Replace 63-1" residential and commercial services along Arroyo Verde Dr, Valley Vista Ln, and Marston Dr. These services are a priority for replacement because they are galvanized steel pipe and will be about 41 years old in 2019. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-25 in Exhibit CC-1-C for more detail.

S-26	333	service lines	30	30-1"	Copper	1"-$3,881	Pebble Ridge Rd	12/2019	n/a	$116,424	Replace 30-1" residential services along Pebble Ridge Rd. These services are a priority for replacement because they are galvanized steel pipe and will be about 45 years old in 2019. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-26 in Exhibit CC-1-C for more detail.
S-27	333	service lines	41	36-1" 5-1.5"	Copper	1"-$3,881 1.5"-$3,947 2"-$4,013	Claremont Ave and Maderos Del Cuenta Dr	12/2019	n/a	$159,443	Replace 36-1" and 5-1.5" (41 total) residential services on Claremont Ave, 42nd St, Marlette Ave, and Maderos Del Cuenta Dr. These services are a priority for replacement because they are galvanized steel pipe and will be about 41 years old in 2019. Galvanized pipe is prone to corrosion and has been shown to have a useful lifetime less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-27 in Exhibit CC-1-C for more detail.
Total			**196**							**$761,957**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 2-1

2015 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-1	331	gate valves	40	5-4" 28-6" 6-8" 1-16"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 16"-$20,046	Area north of Lincoln Dr between 40th St and 54th Pl (see map V-1 for detail)	12/2015	n/a	$203,628	Replace 5-4", 28-6", 6-8", and 1-16" (estimated, 40 total) distribution system valves that are leaking and/or inoperable. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over a quarter of the system valves are nearing 70 years old. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-1 in Exhibit CC-1-C for more detail.
Total			**40**							**$203,628**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 2-2

2016 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-2	331	gate valves	40	5-4" 17-6" 14-8" 3-12" 1-24"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173 24"-$33,246	Area south of Lincoln Dr between 40th St and Invergordon Dr (see map V-2 for detail)	12/2016	n/a	$225,795	Replace 5-4", 17-6", 14-8", 3-12", and 1-24" (estimated, 40 total) distribution system valves that are leaking and/or inoperable. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over a quarter of the system valves are nearing 70 years old. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-2 in Exhibit CC-1-C for more detail.
Total			**40**							**$225,795**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 2-3

2017 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-3	331	gate valves	40	7-4" 13-6" 12-8" 9-12" 1-24"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173 24"-$33,246	Area between Desert Fairways and Mockingbird Ln north of Lincoln Dr and Invergordon Dr and Scottsdale Rd south of Lincoln Dr (see map V-3 for detail)	12/2017	n/a	$242,691	Replace 7-4", 13-6", 12-8", 9-12", and 1-24" (estimated, 40 total) distribution system valves that are leaking and/or inoperable. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over a quarter of the system valves are nearing 70 years old. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-3 in Exhibit CC-1-C for more detail.
Total			**40**							**$242,691**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 2-4

2018 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-4	331	gate valves	40	11-4" 20-6" 7-8" 1-12" 1-16"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173 16"-$20,046	Area south of McDonald Dr between Invergordon Dr and Scottsdale Rd (see map V-4 for detail)	12/2018	n/a	$204,380	Replace 11-4", 20-6", 7-8", 1-12", and 1-16" (estimated, 40 total) distribution system valves that are leaking and/or inoperable. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over a quarter of the system valves are nearing 70 years old. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-4 in Exhibit CC-1-C for more detail.
Total			**40**							**$204,380**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 2-5

2019 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-5	331	gate valves	40	1-4" 15-6" 20-8" 3-12" 1-24"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173 24"-$33,246	Area east of Scottsdale Rd (see map V-5 for detail)	12/2019	n/a	$229,975	Replace 1-4", 15-6", 20-8", 3-12", and 1-24" (estimated, 40 total) distribution system valves that are leaking and/or inoperable. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over a quarter of the system valves are nearing 70 years old. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-5 in Exhibit CC-1-C for more detail.
Total			**40**							**$229,975**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 3-1

2015 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-1	331	Distribution Main	2,179 LF	6"	PVC	$208	Pasadena Loop	12/2015	n/a	$454,179	Replace 2,179 LF of existing main with 6" PVC in Pasadena Ave, 70th St, 70th Pl, 1st St, and 71st Pl. Ln. The main was installed in 1951 and the existing pipe material is a combination of asbestos-cement and galvanized steel which has resulted in several leaks. Replacing the main will help reduce system water loss and improve system reliability. The existing main is 4" in diameter, which is not appropriate for installing hydrants or supporting fire flow, nor is it sufficient to handle the high pressures in this area (>100 psi). The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-1 in Exhibit CC-1-C for more detail.
Total			**2,088 LF**							**$454,179**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 3-2

2016 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-2	331	Distribution Main	1,462 LF	6"	PVC	$192	Mariposa Dr	12/2016	n/a	$280,944	Replace existing main in 69th Pl, Mariposa Dr, 69th St, 70th St, and Rancho Vista Dr with 1,462 feet of 6" main. The main was installed in 1954 and the existing pipe material is asbestos-cement which has resulted in several leaks. Replacing the main will help reduce system water loss and improve system reliability. The existing main is 4" in diameter, which is not appropriate for installing hydrants or supporting fire flow, nor is it sufficient to handle the high pressures in this area (>100 psi). The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-2 in Exhibit CC-1-C for more detail.
WM-3	331	Distribution Main	520 LF	4"	PVC	$126	Silvercrest Way	12/2016	n/a	$65,670	Replace existing main in Silvercrest Way between Clearwater Hills Tanks 1 and 3 with 520 feet of 4" main. The main was installed in 1953 and the existing pipe material is asbestos-cement. This main is currently known to be leaking, but requires Clearwater Hills Tanks 1 and 3 be temporarily shut down in order to be replaced. Replacing the main will help reduce system water loss and improve system reliability. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-3 in Exhibit CC-1-C for more detail.
Total			**1,982 LF**							**$346,614**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 3-3

2017 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-4	331	Distribution Main	1,700 LF	6"	PVC	$171	Starlight Way	12/2017	n/a	$291,500	Replace existing main in Starlight Way between Cameldale Way and Superstition Ln with 1,700 feet of 6" main. Most of this main was installed in 1953 and the existing pipe material is asbestos-cement which has resulted in several leaks. Replacing the main will help reduce system water loss and improve system reliability. The existing main is 4" in diameter, which is not appropriate for installing hydrants or supporting fire flow, nor is it sufficient to handle the high pressures in this area (>100 psi). The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-4 in Exhibit CC-1-C for more detail.
Total			**1,700 LF**							**$291,500**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 3-4

2018 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-5	331	Distribution Main	1,530 LF	6"	PVC	$180	Horseshoe Ln	12/2018	n/a	$274,802	Replace existing main in Horseshoe Ln and 66th Ln with 1,530 feet of 6" main. The main was installed in 1953 and the existing pipe material is asbestos-cement which has resulted in several leaks. Replacing the main will help reduce system water loss and improve system reliability. The existing main is 4" in diameter, which is not appropriate for installing hydrants or supporting fire flow, nor is it sufficient to handle the high pressures in this area (>100 psi). The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-5 in Exhibit CC-1-C for more detail.
WM-6	331	Distribution Main	500 LF	6"	PVC	$175	Quail Run	12/2018	n/a	$87,340	Replace existing main in the rear lot easement between Quail Run and Quail Pl with with 500 feet of 4" main in Quail Run. The main was installed in 1955 and the existing pipe material is asbestos-cement which has resulted in several leaks. Replacing the main will help reduce system water loss and increase system reliability. The existing main is 4" in diameter, which is not appropriate for installing hydrants or supporting fire flow, nor is it sufficient to handle the high pressures in this area (>100 psi). The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-6 in Exhibit CC-1-C for more detail.
Total			**2,030 LF**							**$362,142**	

Paradise Valley – PWS ID No. 0407056

SIB PLANT TABLE I, 3-5

2019 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-7	331	Distribution Main	525 LF	6"	PVC	$173	68 Pl and Chaparral	12/2019	n/a	$90,943	Replace existing main on Chaparral Rd and 68th Pl with 525 feet of 6" main. The main was installed in 1958 and the existing pipe material is asbestos-cement which has resulted in several leaks. Replacing the main will help reduce system water loss and improve system reliability. The existing main is 4" in diameter, which is not appropriate for installing hydrants or supporting fire flow, nor is it sufficient to handle the high pressures in this area (>100 psi). The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-7 in Exhibit CC-1-C for more detail.
WM-8	331	Distribution Main	246 LF	4"	PVC	$165	Sierra Vista	12/2019	n/a	$40,493	Replace existing main in Sierra Vista with 246 feet of 4" main. The main was installed in 1960 and the existing pipe material is galvanized steel which has resulted in several leaks. Replacing the main will help reduce system water loss and improve system reliability. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-8 in Exhibit CC-1-C for more detail.

WM-9	331	Distribution Main	655 LF	4"	PVC	$142	Tamanar Dr	12/2019	n/a	$92,934	Replace existing main in the four cul-de-sacs on Tamanar Dr with 655 feet of 4" main. The main was installed in 1960 and the existing pipe material is galvanized steel which has resulted in several leaks. Replacing the main will help reduce system water loss and improve system reliability. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-9 in Exhibit CC-1-C for more detail.
Total			**1,426 LF**							**$224,369**	

EXHIBIT 2

Paradise Valley - PWS ID No. 0407056

SIB PLANT TABLE II (Page 1 of 2)

Information to be included with SIB-Eligible Completed Project Filings

	NARUC Acct No. (SIB-eligible plant)	Replacement Plant Description (new plant) (SIB-eligible plant)					Site (location description)	Replacement Plant			Original Plant (Plant Being Retired)			
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Installed Pipe/Plant Length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (actual cost)		In-Service Date (provide ADEQ AOC and other related approvals by state and/or federal agencies when applicable)	Subtotal Actual Cost (by NARUC Acct No)	Subtotal Actual Cost (by project)	Actual Retirement Date	Original In-Service Date	Original Cost	Accumulated Depreciation Reserve (as of the actual retirement date)
								Total Actual Cost						

Paradise Valley - PWS ID No. 0407056
SIB PLANT TABLE II (Page 2 of 2, Summary)

Information to be included with SIB-Eligible Completed Project Filings

Project No.	Project Description	Estimated Cost (from TABLE I)	Actual Cost	The project cost to be used in calculating the SIB Revenue Requirement shall be the lesser of the actual project cost listed in SIB Plant Table II or 110 percent of the estimated cost listed in SIB Plant Table I as approved in Decision No._____. Unit costs shall be used if actual units constructed are less than estimated in SIB Plant Table I.
	Total Cost			

EXHIBIT 3

EPCOR WATER Arizona
Paradise Valley Water PSW ID No. 0407056
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule A

Check if
☐ Consolidated

LINE NO. CALCULATION OF OVERALL SIB REVENUE REQUIREMENT AND EFFICIENCY CREDIT

LINE NO.			
1	Total Authorized Revenue Requirement , Per Decision xxxxx, See Attached Schedules	TBD	
2	SIB Revenue Cap percentage	5%	Per Year
3	SIB Revenue Cap	TBD	
4	SIB Allowed Cost (Per SIB Table II, Summary page, Column 2)	TBD	
5	Total Revenue Requirement, (with pro forma SIB investments). See attached revenue requirements schedules as provided by Company.	TBD	
6	SIB Revenue Requirement (line 5 minus line 1)	TBD	
7	SIB Revenue Requirement Efficiency Credit	5%	
8	SIB True-Up Adjustment (from SIB Schedule B)	TBD	
9	SIB Authorized Revenue (line 6 plus line 7 plus line 8)	TBD	

* Number of Equivalent Meters, below TBD

* Charge per 5/8" meter TBD

	No. of Customers at SIB Cycle Year End	Multipliers	5/8 x 3/4-inch Equivalent Meters	Fixed Surcharge	Annual Rev by Meter Size
5/8 x 3/4-inch	TBD	1	TBD	TBD	TBD
3/4-inch	TBD	1.5	TBD	TBD	TBD
1-inch	TBD	2.5	TBD	TBD	TBD
1 1/2-inch	TBD	5	TBD	TBD	TBD
2-inch	TBD	8	TBD	TBD	TBD
3-inch	TBD	16	TBD	TBD	TBD
4-inch	TBD	25	TBD	TBD	TBD
6 -inch	TBD	50	TBD	TBD	TBD
8 -inch	TBD	80	TBD	TBD	TBD
10-inch	TBD	115	TBD	TBD	TBD
Totals	TBD		TBD		TBD

EXHIBIT 4

EPCOR WATER Arizona
Paradise Valley Water PSW ID No. 0407056
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule B

CALCULATION OF SIB TRUE-UP REVENUE REQUIREMENTS ADJUSTMENT	SIB Filing Sequence				
	SIB year 1*	**SIB year 2**	**SIB year 3**	**SIB year 4**	**SIB year 5**
SIB Authorized Revenue , Per SIB Schedule A	TBD	TBD	TBD	TBD	TBD
Total SIB Surcharges collections for Period	TBD	TBD	TBD	TBD	TBD
SIB True-Up Adjustment	TBD	TBD	TBD	TBD	TBD

Note: The Company shall also provide an analysis of cumulative over or under collections and a net amount to be included in the SIB True-up Adjustment

*SIB year 1 is one year after effective date

EXHIBIT 5

EPCOR WATER Arizona
Paradise Valley Water PSW ID No. 0407056
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule C

TYPICAL BILL IMPACTS
5/8 -Inch Customers

		Step 1			Step 2			Step 3			Step 4			Step 5		
Gallons	Per Dec. No. XXXXX(no SIB Surcharge)	Total Bill w/ SIB Year 1 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 2 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 3 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 4 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 5 *	SIB Inc.	Cumulative % Increase
0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
1000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
2000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
3000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
4000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
5000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
6000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
7000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
8000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
9000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
10000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
11000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
12000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
13000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
14000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
15000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
20000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
25000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Median (Cite Usage)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Mean (Cite Usage)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*: Bills in Years 1 -5 are net of Efficiency Credit

EXHIBIT 6

EPCOR WATER Arizona
Paradise Valley Water PSW ID No. 0407056
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule D

Fair Value Rate Base, Revenue & Rate of Return - Decision No. _____

	Per Dec. No XXXXXX	SIB Step 1	SIB Step 2	SIB Step 3	SIB Step 4	SIB Step 5	Total Pro-forma with SIB
Total Operating Revenue *	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operating Expenses	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operations & Maintenance	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Depreciation & Amortizaiton	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Taxes Other than Income	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Income Taxes	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total Operating Expenses	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operating Income	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Rate of Return on Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Authorized Rate of Return on Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*: SIB Revenues in Years 1 -5 are net of 5% Efficiency Credit

MOHAVE WATER

TABLE OF CONTENTS

EXHIBITS

I. GENERAL DESCRIPTION

This document is the Plan of Administration ("POA") for the System Improvement Benefits ("SIB") Mechanism approved for EPCOR Water Arizona Inc's Mohave Water District ("Mohave Water" or "Company") by the Arizona Corporation Commission ("ACC" or "Commission") in Decision No. 75268 on September 8, 2015. The SIB provides for recovery of the capital costs (return on investment, income taxes and depreciation expense) associated with distribution system improvement projects listed in SIB Plant Table I that have been verified to be completed,[1] net of associated retirements and placed in service per SIB Plant Table II and where costs have not been included in rate base for recovery in Decision No. 75268. Any expenditures offset by contributions in aid of construction or advances in aid of construction are not eligible for inclusion of the SIB.

II. DEFINITIONS

- NARUC – National Association of Regulatory Utility Commissioners.
- SIB – System Improvement Benefit mechanism to be implemented between rate proceedings to support investment in plant recorded I SIB Eligible NARUC accounts.
- SIB Eligible Plant – Investments in plant recorded in SIB Eligible NARUC accounts.
- SIB Eligible NARUC accounts:
  - NARUC Account No. 309 – Supply Mains
  - NARUC Account No. 331 – Transmission and Distribution Mains
  - NARUC Account No. 333 – Services
  - NARUC Account No. 334 – Meters and Meter Installations;
  - NARUC Account No. 335 – Hydrants
- SIB Plant Table I (Excerpt attached as Exhibit 1) [2] – The schedule of planned SIB eligible projects that was approved in the Company's most recent rate case. As used

[1] Acceptable form of verifications may include the Maricopa County Environmental Services Department Approval of Construction, Professional Engineer's Certificate of Completion, etc.

[2] See Company filing of March 7, 2014.

herein, this term refers to the most recently updated SIB Plant Table I available unless reference is made to a particular Commission decision.

- SIB Plant Table II – The schedule of completed and verified SIB eligible projects from the latest Commission approved SIB Plant Table I and associated retirements.

- Total Revenue Requirement –The revenue requirement approved in Decision No. 75268, plus the SIB Revenue Requirement.

- SIB Revenue Requirement – The revenue requirement equal to the return on investment, income taxes and depreciation expense necessary to support the SIB Plant Table II amounts.

- SIB Revenue Requirement Efficiency Credit – An amount equal to 5 percent of the SIB Revenue Requirement.

- SIB Authorized Revenue – Amount equal to the SIB Revenue Requirement less the SIB Revenue Requirement Efficiency Credit plus any SIB True up Adjustment.

- Gross SIB Surcharge – Amount to be shown on customers' bills based on meter sizes without consideration to the SIB Surcharge Efficiency Credit.

- SIB Surcharge Efficiency Credit – An amount equal to 5 percent of the Gross SIB Surcharge to be shown on customers' bills.

- SIB Surcharge - The amount equal to the Gross SIB Surcharge less the SIB Surcharge Efficiency Credit to be charged, based on meter size, calculated to recover the SIB Authorized Revenue. The SIB Surcharge is to be shown as a separate line item on customers' bill.

- SIB True- up Adjustment – An amount to adjust for over- or under-collection of the SIB Authorized Revenues as compared with the total SIB Surcharges collected for the preceding 12 month period. Each SIB true-up shall also analyze the cumulative over- or under-collections to include a comparison of all past SIB Authorized Revenues, total SIB Surcharge collections, and prior true-ups to be used in calculation of the SIB true-up surcharge or credit by meter size,

III. SIB RELATED FILINGS

A. Progress Reports – Once a SIB is approved in a decision, the Company must file with Docket Control semi-annual status reports delineating the status of all SIB Eligible Plant, on a project by project basis as listed in the latest Commission approved SIB

Plant Table I. The initial semi-annual status report shall include only those projects from the initial SIB Plant Table I which the Company has designated as most likely to be completed in the first 12 months.

B. Reconciliation and True Up - Once a SIB Surcharge is implemented, the Company must file annually to true up its SIB Surcharge collections over the preceding twelve months with the SIB Authorized Revenue for that period and establish a surcharge or credit to true up over or under collections, regardless of whether it seeks a new surcharge. The filing dates for these annual true-ups shall be as established in the Commission's Decision approving the SIB Surcharge.

C. SIB Surcharge Requests- To obtain its SIB Surcharge the Company must file the following:

1. SIB Plant Table II[3] (with supporting information and documentation), showing the SIB eligible projects completed for which the Company seeks cost recovery. Such projects must:

    a. be projects listed in the SIB Plant Table I;

    b. have been completed by the Company;

    c. have been verified; and

    d. be actually serving customers.

2. A summary of Commission approved SIB-eligible projects contemplated for the next twelve (12)-month SIB surcharge period from SIB Plant Table I[4] from Decision No. 75268 to allow the Commission to establish the latest SIB Plant Table I.

3. SIB Schedule A (sample attached as Exhibit 3), showing a calculation of the SIB Revenue Requirement and SIB Revenue Requirement Efficiency Credit, SIB Authorized Revenue, Gross SIB Surcharge, SIB Surcharge Efficiency Credit, and the SIB Surcharge. Schedule A shall be supported by revenue requirements

[3] Sample attached as Exhibit 2

[4] Beginning with its SIB Surcharge Request filing for the second 12-month surcharge period, the Company may request a change from the estimated Cost/Unit (approved in the Company's most recent rate case Decision) due to inflation using the latest calendar year Consumer Price Index (see sample attached as Exhibit 1). This may be done only if the original SIB Plant Table I unit cost did not account for inflation.

schedules supporting the revenue requirements in Decision No. 75268 and the pro-forma revenue requirements including the effects of SIB Eligible Plant.

4. Schedule B (sample attached as Exhibit 4) showing the overall SIB True- up Adjustment calculation for the prior twelve-month SIB Surcharge period, as well as the individual SIB True-up Adjustment for each meter size.

5. SIB Schedule C (sample attached as Exhibit 5) showing the effect of the SIB Surcharge on a typical residential customer bill for both median and average usage.

6. SIB Schedule D (sample attached as Exhibit 6) which shall include an analysis of the impact of completed SIB Eligible Plant projects on the fair value rate base, revenue, and the fair value rate of return. The Company shall also file the following as part of SIB D Schedule:

   a. the most current balance sheet at the time of the filing;
   b. the most current income statement;
   c. an earnings test;
   d. a rate review schedule (including the incremental and pro forma effects of the proposed increase);
   e. an adjusted rate base schedule; and
   f. a Construction Work in Progress ledger for each project showing accumulation of charges by month and paid contractor invoices including a summary page showing the calculation of the SIB eligible rate base and depreciation expense net of associated retirements

D. The Company will maintain and provide to the Commission's Utilities Division (Staff) and the Residential Utility Consumer Office (RUCO) schedules in Microsoft Excel format (with all formulae intact) supporting the revenue requirement approved in Decision No. 75268, and the effects of completed SIB eligible plant for the current SIB Surcharge Request and any previously approved SIB Surcharge and SIB True-up Adjustment Requests.

E. The Company may make its initial SIB Surcharge Request through Docket Control no earlier than twelve months after the entry of Decision No.75268.

F. The Company may make no more than one SIB Surcharge Request every twelve months with no more than five SIB Surcharge Requests between rate case decisions. A True-up must be filed with each SIB Surcharge Request, except the first.

G. Unless otherwise authorized by the Commission, the Company shall be required to file its next general rate case no later than June 30, 2021, with a test year ending no later than December 31, 2020.

H. Any SIB Surcharges that are in effect shall be reset to zero upon the date new rates become effective in the Company's next general rate case.

IV. SURCHARGE CALCULATIONS

A. Calculations of Amounts to Be Collected By the SIB Surcharge

1. The amount to be collected by the SIB Authorized Revenue shall be equal to the SIB Revenue Requirement minus the SIB Revenue Requirements Efficiency Credit plus any SIB True up Adjustment.

   For purposes of calculation the SIB Revenue Requirement:

   a. The required rate of return is equal to the overall rate of return authorized in Decision No. 75268.

   b. The gross revenue conversion factor/tax multiplier is equal to the gross revenue conversion factor/tax multiplier approved in Decision No. 75268; and

   c. The applicable depreciation rate(s) is equal to the depreciation rate(s) approved in Decision No. 75268.

2. The SIB plant unit cost to be used in calculating the SIB Revenue Requirement shall be the lesser of the installed SIB plant unit cost listed in SIB Plant Table II or 110 percent of the SIB plant estimated unit cost listed in the latest Commission approved SIB Plant Table I.

3. The amount to be collected by each SIB Surcharge Request shall be capped annually at five percent of the revenue requirement authorized in Decision No. 75268.

B. Reconciliation And True-Ups

1. The revenue collected by the total SIB Surcharges over the preceding twelve months shall be trued-up and reconciled with the SIB Authorized Revenue for that period.

2. A new SIB Surcharge shall be combined with an existing SIB Surcharge such that a single SIB surcharge and SIB Efficiency Credit are shown on a customer's bill.

3. For each twelve (12) month period that a SIB surcharge is in effect, the Company shall reconcile the amounts collected by the SIB Surcharge with the SIB Authorized Revenue, for that twelve (12)-month period, consistent with Schedule B, attached hereto as Exhibit 4.

4. Any under- or over-collected SIB Authorized Revenues shall be recovered or refunded, without interest, over a twelve-month period by means of a SIB True-up Surcharge or Credit.

5. Starting with the second annual SIB Surcharge, where there are over- or under-collected balances, such over- or under-collected balances shall be carried over to the next year, and considered in the calculation of the new SIB True-up Surcharge or Credit. If, after the five-year period there remains an over- or under-collected balance, such balance shall be reset to zero, and addressed in the next rate case.

C. Earnings Test

1. Once a SIB Surcharge is in effect, the Company shall be required to perform an annual earnings test calculation for each SIB Surcharge Request to determine whether the actual rate of return reflected by the operating income for the affected system or division for the relevant 12- month period exceeded the most recently authorized fair value rate of return for the affected system or division.

2. The earnings test shall be:

   a. based on the most recent available operating income,

   b. adjusted for any operating revenue and expense adjustments adopted in the most recent general rate case; and

   c. based on the rate base adopted in the most recent general rate case, updated to recognize changes in plant, accumulated depreciation, contributions in aid of construction, advances in aid of construction, and accumulated deferred income taxes through the most recent available financial statement (quarterly or longer).

V. ADDING PROJECTS TO SIB TABLE I UNDER EMERGENCY CIRCUMSTANCES

A. The Company may seek Commission approval to add projects in SIB Plant Table I only in the event of emergency circumstances. No such changes may be made without Commission approval.

B. Any addition to SIB Plant Table I must be plant investment that maintains or improves existing customer service, system reliability, integrity and safety. Eligible plant additions are limited to plant replacement projects. The costs of extending facilities or capacity to serve new customers are not recoverable through the SIB mechanism.

C. To be eligible for SIB treatment, a project must be SIB Eligible Plant.

D. SIB Eligible Plant must satisfy at least one of the following criteria:

1. Water loss for the system exceeds ten (10) percent, as calculated by the following formula: ((Volume of Water Produced and/ or Purchased) - (Volume of Water Sold + Volume of Water Put to Beneficial Use)) divided by (Volume of Water Produced and/or Purchased). If the Volume of Water Put to Beneficial Use is not metered, it shall be established in a reliable, verifiable manner.

2. Plant assets that have remained in service beyond their useful service lives (based on the Company's system's authorized utility plant depreciation rates) and are in need of replacement due to being worn out or in a deteriorating condition through no fault of the Company;

3. Any other engineering, operational or financial justification supporting the need for a plant asset replacement, other than the Company's negligence or improper maintenance, including, but not limited to:

    a. A documented increasing level of repairs to, or failures of, a plant asset justifying its replacement prior to reaching the end of its useful service life (e.g. black poly pipe);

    b. Assets that are required to be moved, replaced or abandoned by a governmental agency or political subdivision if the Company van show that it has made a good faith effort to seek reimbursement for all or part of the costs incurred.

VI. SIB SURCHARGE RATE DESIGN

A. The SIB Surcharge rate design shall be calculated as follows:

1. The SIB Surcharge shall be a fixed monthly surcharge containing a Gross SIB Surcharge and the SIB Surcharge Efficiency Credit as its two components.

2. The SIB Surcharge shall be calculated by dividing the SIB Authorized Revenue by the number of equivalent active 5/8-inch meters at the end of the most recent twelve (12) month period, and shall increase with meter size based on the following meter capacity multipliers:

5/8-inch x 3/4-inch	1.0 times
3/4-inch	1.5 times
l-inch	2.5 times
1 1/2-inch	5 times
2-inch	8 times
3-inch	16 times
4-inch	25 times
6-inch	50 times
8-inch	80 times
10-inch & above	115 times

B. The SIB Surcharge shall apply to all of the Company's metered customers, including private fire service customers.

VII. SIB SURCHARGE NOTICE REQUIREMENTS

A. Thirty days prior to filing each application to implement a SIB Surcharge, the Company shall file a proposed form of notice to Staff for review, and a Summary of what the Company will be requesting in the application. Once the notice is approved by Staff, the Company shall provide a copy of the approved notice to its customers via newsletter or bill insert. After providing notice, the Company shall fie a copy of the notice and a description of when and how it provided notice with each application to implement a SIB surcharge. The Summary and Notice shall include at least the following information:

1. The individual Gross SIB Surcharge, by meter size;

2. The individual SIB Surcharge Efficiency Credit, by meter size;

3. The SIB Surcharge, by meter size; and

4. Directions to where the customer may obtain a summary of the projects included in the current SIB Surcharge request, including a description of each project and its cost.

B. A SIB Surcharge shall not become effective until approved by the Commission.

C. The Company shall provide a proposed order for the Commission's consideration.

D. The Company shall notice its customer of the SIB Surcharge approved herein as soon as possible in a form acceptable to Staff and consistent with the notice requirements of Decision 75268.

E. The Company shall not implement the SIB Surcharge until 30 days after having filed documentation in Docket Control providing the date when all effected customers have been notified of the Commission approved SIB Surcharge.

EXHIBIT 1

SIB Table I

(Exhibit CC-2-A)

EPCOR Water (USA) Inc.

Mohave Water District

PWS ID No. 08-032, 08-333, 08-068

February 28, 2014

Mohave – PWS ID No. 08-032

SIB PLANT TABLE I, 1-1

2015 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-1	333	service lines	36	¾" & 1"	Copper	$3,881	Calle de Mercado	12/2015	n/a	$139,709	Replace 34 residential and 2 commercial services on Silver Creek Rd, Calle de Mercado, and Mercado Ct between El Cazador and Rosewood Rd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-1 in Exhibit CC-1-A for more detail.
S-2	333	service lines	53	¾" & 1"	Copper	$3,881	Avenida Colibri	12/2015	n/a	$205,682	Replace 53 residential services on Avenida Colibri and Colibri Ct between Corona Vista and Rosewood Rd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-2 in Exhibit CC-1-A for more detail.

S-3	333	service lines	25	¾" & 1"	Copper	$3,881	Paloma Senda Dr	12/2015	n/a	$97,020	Replace 25 residential services on Paloma Senda Dr between Corona Vista and Rosewood Rd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-3 in Exhibit CC-1-A for more detail.
S-4	333	service lines	24	¾" & 1"	Copper	$3,881	Avenida Grande	12/2015	n/a	$93,139	Replace 24 residential services on Avenida Grande between Corona Vista and Avenida Ventura Dr. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth See Section 1 narrative and Map No. S-4 in Exhibit CC-1-A for more detail.
S-5	333	service lines	37	¾" & 1"	Copper	$3,881	El Cazador	12/2015	n/a	$143,590	Replace 37 residential services on Calle de Mercado, Valley Vista, El Cazador, Corona Vista, Avenida Grande, Corona Redonda, and Via Corona south of Silver Creek Rd Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-5 in Exhibit CC-1-A for more detail.
S-6	333	service lines	99	¾" & 1"	Copper	$3,881	Riverside Dr North	12/2015	n/a	$384,199	Replace 99 residential services on Riverside Dr between Orca Ln and Colorado Blvd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-6 in Exhibit CC-1-A for more detail.
Total			**274**							**$1,063,339**	

Mohave – PWS ID No. 08-032

SIB PLANT TABLE I, 1-2

2016 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-7	333	service lines	38	¾" & 1"	Copper	$3,881	Riverside Dr South	12/2016	n/a	$147,470	Replace 38 residential services on Riverside Dr between Orca Ln and Capistrano Ln. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-7 in Exhibit CC-1-A for more detail.
S-8	333	service lines	69	¾" & 1"	Copper	$3,881	Castle Rock	12/2016	n/a	$267,775	Replace 69 residential services on Castle Rock Cir and Capistrano Ln between Riverside Dr and Marina Blvd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-8 in Exhibit CC-1-A for more detail.

S-9	333	service lines	46	¾" & 1"	Copper	$3,881	Capistrano Ln	12/2016	n/a	$178,517	Replace 46 residential services on Castle Berry Ln and Capistrano Ln between Riverside Dr and Orca Ln. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-9 in Exhibit CC-1-A for more detail.
Total			**153**							**$593,762**	

Mohave – PWS ID No. 08-032

SIB PLANT TABLE I, 1-3

2017 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-10	333	service lines	40	¾" & 1"	Copper	$3,881	Orca Ln	12/2017	n/a	$155,232	Replace 40 residential services on Orca Ln between Riverside Dr and Colorado Blvd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-10 in Exhibit CC-1-A for more detail.
S-11	333	service lines	62	¾" & 1"	Copper	$3,881	Tanglewood Ln	12/2017	n/a	$240,610	Replace 62 residential services on Tanglewood Ln and Willowood Ln between Riverside Dr and Colorado Blvd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-11 in Exhibit CC-1-A for more detail.
Total			**102**							**$395,842**	

Mohave – PWS ID No. 08-032

SIB PLANT TABLE I, 1-4

2018 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-12	333	service lines	45	¾" & 1"	Copper	$3,881	Meander Ln	12/2018	n/a	$174,636	Replace 45 residential services on Meander Dr between Thunderbird Ln and Rio Grande Rd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-12 in Exhibit CC-1-A for more detail.
S-13	333	service lines	51	¾" & 1"	Copper	$3,881	Colorado Blvd South	12/2018	n/a	$197,921	Replace 51 residential services on Colorado Blvd between Marina Blvd and Riverwood Ln. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-13 in Exhibit CC-1-A for more detail.

S-14	333	service lines	49	¾" & 1"	Copper	$3,881	Forest Dr	12/2018	n/a	$190,159	Replace 49 residential services on Forest Dr between Riverwood Ln and Hancock Rd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-14 in Exhibit CC-1-A for more detail.
Total			**145**							**$562,716**	

Mohave – PWS ID No. 08-032

SIB PLANT TABLE I, 1-5

2019 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-15	333	service lines	40	¾" & 1"	Copper	$3,881	Cyprus Ln	12/2019	n/a	$155,232	Replace 40 residential services on Cyprus Ln between Colorado Blvd and Riverside Dr Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-15 in Exhibit CC-1-A for more detail.
S-16	333	service lines	16	¾" & 1"	Copper	$3,881	Riverwood Ln	12/2019	n/a	$62,093	Replace 16 residential services on Riverwood Ln between Colorado Blvd and Riverside Dr. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-16 in Exhibit CC-1-A for more detail.

S-17	333	service lines	47	¾" & 1"	Copper	$3,881	Colorado Blvd North	12/2019	n/a	$182,398	Replace 47 residential services on Colorado Blvd. between Riverwood Ln. and Hancock Rd. Many of the services are branched black poly lines (one service for two customers) that are failing at a high rate. These services are a priority for replacement because of the historical failure rate of the pipe material as well as the need to connect a single service to each customer. Replacing the services will help reduce system water loss and improve customer pressure and flow with a single service for each customer. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-17 in Exhibit CC-1-A for more detail.
Total			**103**							**$399,722**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 2-1

2015 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-1	331	gate valves	46	22-4" 19-6" 4-8" 1-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173	Area bounded by the Colorado River on the west, Hancock Rd on the north, and Lakeside Dr on the east	12/2015	n/a	$212,819	Replace 22-4", 19-6", 4-8", and 1-12" (estimated, 46 total) distribution system valves that are no longer functioning. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over one-third of the valves in the system are about 50 years old. In 2013, over 60 valves were found broken during normal operations activities. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-1 in Exhibit CC-1-A for more detail.
Total			**46**							**$212,819**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 2-2

2016 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-2	331	gate valves	46	11-4" 26-6" 8-8" 1-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173	Area bounded by the Colorado River on the west, Hancock Rd on the south, and Hwy 95 and Fletcher Ln on the east	12/2016	n/a	$217,439	Replace 11-4", 26-6", 8-8", and 1-12" (estimated, 46 total) distribution system valves that are no longer functioning. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over one-third of the valves in the system are about 50 years old. In 2013, over 60 valves were found broken during normal operations activities. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-2 in Exhibit CC-1-A for more detail.
Total			**46**							**$217,439**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 2-3

2017 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-3	331	gate valves	46	8-4" 23-6" 10-8" 5-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173	Area bounded by Camino Del Rio and Lakeside Dr on the west, Hancock Rd on the north, Hwy 95 on the east, and Rainbow Dr on the south; also the area bounded by Hwy 95 on the west and north, Arcadia Blvd on the east, and Rio Vista Dr on the south	12/2017	n/a	$225,289	Replace 8-4", 23-6", 10-8", and 5-12" (estimated, 46 total) distribution system valves that are no longer functioning. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over one-third of the valves in the system are about 50 years old. In 2013, over 60 valves were found broken during normal operations activities. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-3 in Exhibit CC-1-A for more detail.
Total			**46**							**$225,289**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 2-4

2018 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-4	331	gate valves	45	1-4" 17-6" 20-8" 2-10" 5-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 10"-$5,641 12"-$6,173	Area east of Arcadia Blvd and Hwy 95 between the Pass Canyon Rd and Rainbow Dr	12/2018	n/a	$229,658	Replace 1-4", 17-6", 20-8", 2-10", and 5-12" (estimated, 45 total) distribution system valves that are no longer functioning. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over one-third of the valves in the system are about 50 years old. In 2013, over 60 valves were found broken during normal operations activities. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-4 in Exhibit CC-1-A for more detail.
Total			**45**							**$229,658**	

Mohave – PWS ID Nos. 08032, 08137, 08062, 08037, 08333, and 08163

SIB PLANT TABLE I, 2-5

2019 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-5	331	gate valves	45	8-4" 9-6" 23-8" 1-10" 4-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 10"-$5,641 12"-$6,173	Old Bullhead City, Desert Foothills, Lake Mohave Highlands, Camp Mohave, Rio Vista Ranches, and Gateway areas	12/2019	n/a	$226,763	Replace 8-4", 9-6", 23-8", 1-10", and 4-12" (estimated, 45 total) distribution system valves that are no longer functioning. These numbers are only estimates and are based on the percentage of existing valve sizes in the project area. This area represents approximately 20% of the total system valves. Valves found broken as a part of the annual valve maintenance program will be replaced. Over one-third of the valves in the system are about 50 years old. In 2013, over 60 valves were found broken during normal operations activities. Making certain that all system valves are operational ensures that the time required to shut down water mains in the event of a main break or system maintenance is minimized. This reduces customer service disruptions and decreases water loss during main breaks. These valve replacements are not related to new growth. See Section 2 narrative and Map V-5 in Exhibit CC-1-A for more detail.
Total			**45**							**$226,763**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 3-1

2015 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-1	331	Distribution Main	485 LF	6"	PVC	$235	Juanita Ln	12/2015	n/a	$113,878	Replace 485 LF of existing ABS thin-wall main with 6" PVC in Juanita Ln. The main was installed in 1982 and the existing material is not of sufficient strength for use in a public water system which has resulted in several leaks. Replacing the main will help reduce system water loss and improve customer pressure and flow. The existing main is 3" in diameter, which is not sufficient for installing hydrants or supporting fire flow. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-1 in Exhibit CC-1-A for more detail.

WM-2	331	Distribution Main	1,677 LF	8"	PVC	$270	Safari Dr	12/2015	n/a	$452,216	Replace existing mains in rear-lot easements along Safari Dr between Riverview Way and Riverview Dr and along Riverview Cv north of Riverview Dr with 1,677 LF of 8" main in Safari Dr between Riverview Way and Riverview Dr and Riverview Cv north of Riverview Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-2 in Exhibit CC-1-A for more detail.
Total			**2,162 LF**							**$566,093**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 3-2

2016 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-3	331	Distribution Main	571 LF	8"	PVC	$207	Riverview Way	12/2016	n/a	$118,041	Replace existing mains in rear-lot easements along Riverview Way between Riverview Dr and Swan Dr with 571 LF of 8" main in Riverview Way between Riverview Dr and Swan Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-3 in Exhibit CC-1-A for more detail.

WM-4	331	Distribution Main	1,860 LF	8"	PVC	$231	Swan Dr	12/2016	n/a	$430,441	Replace existing mains in rear-lot easements along Swan Dr between Bermuda Dr and Newport Dr with 1,860 LF of 8" main in Swan Dr between Bermuda Dr and Newport Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-4 in Exhibit CC-1-A for more detail.
WM-5	331	Distribution Main	978 LF	8"	PVC	$216	Coronado Dr	12/2016	n/a	$211,229	Replace existing mains in rear-lot easements along Coronado Dr between Swan Dr and Bermuda Dr with 978 LF of 8" main in Coronado Dr between Swan Dr and Bermuda Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-5 in Exhibit CC-1-A for more detail.
WM-6	331	Distribution Main	411 LF	8"	PVC	$272	Swan Pl	12/2016	n/a	$111,612	Replace existing mains in rear-lot easements along Swan Pl between Bermuda Dr and Swan Dr with 411 LF of 8" main in Swan Pl between Bermuda Dr and Swan Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-6 in Exhibit CC-1-A for more detail.
Total			**3,820 LF**							**$872,322**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 3-3

2017 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-7	331	Distribution Main	1,155 LF	8"	PVC	$354	Morro Dr	12/2017	n/a	$408,980	Replace existing mains in rear-lot easements along along Morro Dr and Morro Cv between Bermuda Dr and Riverview Dr with 1,155 LF of 8" main in Morro Dr and Morro Cv between Bermuda Dr and Riverview Dr The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-7 in Exhibit CC-1-A for more detail.

WM-8	331	Distribution Main	353 LF	8"	PVC	$263	Coronado Dr	12/2017	n/a	$92,667	Replace existing mains in rear-lot easements along Coronado Dr between Riverview Dr and Malibu Dr with 353 LF of 8" main in Coronado Dr between Riverview Dr and Malibu Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-8 in Exhibit CC-1-A for more detail.
WM-9	331	Distribution Main	190 LF	8"	PVC	$356	Alpine Cv	12/2017	n/a	$67,733	Replace existing mains in rear-lot easements along Alpine Cv between Riverview Dr and Malibu Dr with 190 LF of 8" main in Alpine Cv between Riverview Dr and Malibu Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-9 in Exhibit CC-1-A for more detail.
WM-10	331	Distribution Main	548 LF	8"	PVC	$230	Ventura Dr	12/2017	n/a	$126,049	Replace existing mains in rear-lot easements along Ventura Dr between Riverview Dr and Malibu Dr with 548 LF of 8" main in Ventura Dr between Riverview Dr and Malibu Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-10 in Exhibit CC-1-A for more detail.

WM-11	331	Distribution Main	1,839 LF	8"	PVC	$235	Bermuda Dr	12/2017	n/a	$431,449	Replace existing mains in rear-lot easements along Bermuda Dr between Riverview Dr and Coronado Dr with 1,839 LF of 8" main in Bermuda Dr between Riverview Dr and Coronado Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-11 in Exhibit CC-1-A for more detail.
Total			**4,085 LF**							**$1,126,877**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 3-4

2018 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-12	331	Distribution Main	655 LF	8"	PVC	$232	Montecito Dr	12/2018	n/a	$151,762	Replace existing mains in rear-lot easements along Montecito Dr between Riverview Dr and Malibu Dr with 655 LF of 8" main in Montecito Dr between Riverview Dr and Malibu Dr The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-12 in Exhibit CC-1-A for more detail.

WM-13	331	Distribution Main	2,090 LF	8"	PVC	$258	Hermosa Dr	12/2018	n/a	$538,549	Replace existing mains in rear-lot easements along Hermosa Dr between Riverview Dr and Coronado Dr with 2,090 LF of 8" main in Hermosa Dr between Riverview Dr and Coronado Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-13 in Exhibit CC-1-A for more detail.
WM-14	331	Distribution Main	1,342 LF	8"	PVC	$254	Balboa Dr South	12/2018	n/a	$340,624	Replace existing mains in rear-lot easements along Balboa Dr between Riverview Dr and Swan Dr with 1,342 LF of 8" main in Balboa Dr between Riverview Dr and Swan Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-14 in Exhibit CC-1-A for more detail.
Total			**4,087 LF**							**$1,030,934**	

Mohave – PWS ID No. 08032

SIB PLANT TABLE I, 3-5

2019 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-15	331	Distribution Main	900 LF	8"	PVC	$281	Balboa Dr North	12/2019	n/a	$252,945	Replace existing mains in rear-lot easements along Del Rey Dr between Swan Dr and Coronado Dr with 900 LF of 8" main in Del Rey Dr between Swan Dr and Coronado Dr The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-15 in Exhibit CC-1-A for more detail.

WM-16	331	Distribution Main	2,603 LF	8"	PVC	$284	Del Rey Dr	12/2019	n/a	$739,306	Replace existing mains in rear-lot easements along Del Rey Dr between Riverview Dr and Coronado Dr with 2,603 LF of 8" main in Del Rey Dr between Riverview Dr and Coronado Dr. The existing mains in this area were installed in 1967. The existing pipe material does not meet current standards for use in public water systems and is not of sufficient strength, which has resulted in leaks and/or breaks. Replacing the main will help reduce system water loss and improve system reliability. The existing mains are located in rear-lot easements which are difficult to access for repairs. The mains are not sufficient to support fire flow nor are they accessible for emergency vehicles. One main in the street will replace the two existing mains on either side of the street in the rear easements. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-16 in Exhibit CC-1-A for more detail.
Total			**3,503 LF**							**$992,251**	

Mohave water district – PWS ID No. 08-032

SIB PLANT TABLE I, 4-1

2015 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-1	334	meters	1,479	5/8" to >2"	Copper/ Plastic	5/8"-$173 3/4"-$195 1"-$234 1½"-$367 2"-$447 >2"-$1,223	Meter Routes 1019, 1061, and 1111-1116 (see map M-1 in Exhibit CC-1)	12/2015	n/a	$266,908	Replace 1,408 - 5/8", 2 - 3/4", 39 – 1", and 30 – 2" (1,479 total) meters in Mohave district meter routes 1019, 1061, and 1111-1116. The existing meters in these routes will be between 12 and 16 years old at the time of replacement; most will be at least 15 years old. They are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help reduce system water loss. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map M-1 in Exhibit CC-1-A for more detail.
Total			**1,479**							**$266,908**	

Mohave water district – PWS ID No. 08-032

SIB PLANT TABLE I, 4-2

2016 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-2	334	meters	1,782	5/8" to >2"	Copper/ Plastic	5/8"-$173 3/4"-$195 1"-$234 1½"-$367 2"-$447 >2"-$1,223	Meter Routes 1005, 1105-1110, and 1130 (see map M-2 in Exhibit CC-1)	12/2016	n/a	$314,733	Replace 1,733 - 5/8", 34 – 1", 3 – 1.5", and 12 – 2" (1,782 total) meters in Mohave district meter routes 1005, 1105-1110, and 1130. The existing meters in these routes will be between 12 and 17 years old at the time of replacement; most will be at least 16 years old. They are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help reduce system water loss. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map M-2 in Exhibit CC-1-A for more detail.
Total			**1,782**							**$314,733**	

Mohave water district – PWS ID No. 08-032

SIB PLANT TABLE I, 4-3

2017 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-3	334	meters	1,638	5/8" to >2"	Copper/ Plastic	5/8"-$173 3/4"-$195 1"-$234 1½"-$367 2"-$447 >2"-$1,223	Meter Routes 1002, 1003, 1014, and 1101-1104 (see map M-3 in Exhibit CC-1)	12/2017	n/a	$298,679	Replace 1,557 - 5/8", 34 – 1", 1 – 1.5", and 46 – 2" (1,638 total) meters in Mohave district meter routes 1002, 1003, 1014, and 1101-1104. The existing meters in these routes will be between 16 and 23 years old at the time of replacement; most will be at least 17 years old. They are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help reduce system water loss. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map M-3 in Exhibit CC-1-A for more detail.
Total			**1,638**							**$298,679**	

Mohave water district – PWS ID Nos. 08-032 and 08-137

SIB PLANT TABLE I, 4-4

2018 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-4	334	meters	1,457	5/8" to >2"	Copper/ Plastic	5/8"-$173 3/4"-$195 1"-$234 1½"-$367 2"-$447 >2"-$1,223	Meter Routes 1008, 1009, 1011-1013, 1042, 1124, 1131, 1133, and 1137 (see map M-4 in Exhibit CC-1)	12/2018	n/a	$263,074	Replace 1,377 - 5/8", 37 – 1", and 43 – 1.5" (1,457 total) meters in Mohave district meter routes 1008, 1009, 1011-1013, 1042, 1124, 1131, 1133, and 1137. The existing meters in these routes will be between 13 and 19 years old at the time of replacement; most will be at least 14 years old. They are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help reduce system water loss. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map M-4 in Exhibit CC-1-A for more detail.
Total			**1,457**							**$263,074**	

Mohave water district – PWS ID Nos. 08-032, 08-333, and 08-068

SIB PLANT TABLE I, 4-5

2019 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-5	334	meters	2,118	5/8" to >2"	Copper/ Plastic	5/8"-$173, ¾"-$195 1"-$234 1½"-$367 2"-$447 >2"-$1,223	Meter Routes 1062, 1074, 1075, and NMVW (see map M-5 in Exhibit CC-1)	12/2019	n/a	$368,099	Replace 2,111 - 5/8", 4 – 1", and 3 – 2" (2,118 total) meters in Mohave district meter routes 1062, 1074, 1075, and North Mohave Valley Water. The existing meters in these routes will be between 13 and 19 years old at the time of replacement; most will be at least 14 years old. They are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help reduce system water loss. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map M-5 in Exhibit CC-1-A for more detail.
Total			**2,118**							**$368,099**	

EXHIBIT 2

SIB Table II Template

(Exhibit CC-3-A)

EPCOR Water (USA) Inc.

Mohave Water District

PWS ID No. 08-032, 08-333, 08-068

February 28, 2014

Mohave Water - PWS ID No. 08-032, 08-333, 08-068
SIB PLANT TABLE II (Page 1 of 2)
Information to be included with SIB-Eligible Completed Project Filings

	NARUC Acct No. (SIB-eligible plant)	Replacement Plant Description (new plant) (SIB-eligible plant)					Site (location description)	Replacement Plant			Original Plant (Plant Being Retired)			
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Installed Pipe/Plant Length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (actual cost)		In-Service Date (provide ADEQ AOC and other related approvals by state and/or federal agencies when applicable)	Subtotal Actual Cost (by NARUC Acct No)	Subtotal Actual Cost (by project)	Actual Retirement Date	Original In-Service Date	Original Cost	Accumulated Depreciation Reserve (as of the actual retirement date)
Total Actual Cost														

Mohave Water - PWS ID No. 08-032, 08-333, 08-068
SIB PLANT TABLE II (Page 2 of 2, Summary)

Information to be included with SIB-Eligible Completed Project Filings

Project No.	Project Description	Estimated Cost (from TABLE I)	Actual Cost	The project cost to be used in calculating the SIB Revenue Requirement shall be the lesser of the actual project cost listed in SIB Plant Table II or 110 percent of the estimated cost listed in SIB Plant Table I as approved in Decision No._____. Unit costs shall be used if actual units constructed are less than estimated in SIB Plant Table I.
	Total Cost			

EXHIBIT 3

EPCOR WATER Arizona
Mohave Water PWS ID Nos 08-032, 08-333, 08-068
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule A

Check if
☐ Consolidated

LINE NO.	CALCULATION OF OVERALL SIB REVENUE REQUIREMENT AND EFFICIENCY CREDIT		
1	Total Authorized Revenue Requirement , Per Decision xxxxx, See Attached Schedules	TBD	
2	SIB Revenue Cap percentage	5%	Per Year
3	SIB Revenue Cap	TBD	
4	SIB Allowed Cost (Per SIB Table II, Summary page, Column 2)	TBD	
5	Total Revenue Requirement, (with pro forma SIB investments). See attached revenue requirements schedules as provided by Company.	TBD	
6	SIB Revenue Requirement (line 5 minus line 1)	TBD	
7	SIB Revenue Requirement Efficiency Credit	5%	
8	SIB True-Up Adjustment (from SIB Schedule B)	TBD	
9	SIB Authorized Revenue (line 6 plus line 7 plus line 8)	TBD	

* Number of Equivalent Meters, below TBD

* Charge per 5/8" meter TBD

	No. of Customers at SIB Cycle Year End	Multipliers	5/8 x 3/4-inch Equivalent Meters	Fixed Surcharge	Annual Rev by Meter Size
5/8 x 3/4-inch	TBD	1	TBD	TBD	TBD
3/4-inch	TBD	1.5	TBD	TBD	TBD
1-inch	TBD	2.5	TBD	TBD	TBD
1 1/2-inch	TBD	5	TBD	TBD	TBD
2-inch	TBD	8	TBD	TBD	TBD
3-inch	TBD	16	TBD	TBD	TBD
4-inch	TBD	25	TBD	TBD	TBD
6 -inch	TBD	50	TBD	TBD	TBD
8 -inch	TBD	80	TBD	TBD	TBD
10-inch	TBD	115	TBD	TBD	TBD
Totals	TBD		TBD		TBD

EXHIBIT 4

EPCOR WATER Arizona
Mohave Water PWS ID Nos 08-032, 08-333, 08-068
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule B

CALCULATION OF SIB TRUE-UP REVENUE REQUIREMENTS ADJUSTMENT	SIB Filing Sequence				
	SIB year 1*	**SIB year 2**	**SIB year 3**	**SIB year 4**	**SIB year 5**
SIB Authorized Revenue , Per SIB Schedule A	TBD	TBD	TBD	TBD	TBD
Total SIB Surcharges collections for Period	TBD	TBD	TBD	TBD	TBD
SIB True-Up Adjustment	TBD	TBD	TBD	TBD	TBD

Note: The Company shall also provide an analysis of cumulative over or under collections and a net amount to be included in the SIB True-up Adjustment

*SIB year 1 is one year after effective date

EXHIBIT 5

EPCOR WATER Arizona
Mohave Water PWS ID Nos 08-032, 08-333, 08-068
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule C

TYPICAL BILL IMPACTS
5/8 -Inch Customers

		Step 1			Step 2			Step 3			Step 4			Step 5		
Gallons	Per Dec. No. XXXXX(no SIB Surcharge)	Total Bill w/ SIB Year 1 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 2 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 3 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 4 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 5 *	SIB Inc.	Cumulative % Increase
0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
1000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
2000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
3000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
4000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
5000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
6000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
7000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
8000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
9000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
10000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
11000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
12000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
13000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
14000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
15000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
20000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
25000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Median (Cite Usage)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Mean (Cite Usage)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*: Bills in Years 1 -5 are net of Efficiency Credit

EXHIBIT 6

EPCOR WATER Arizona
Mohave Water PWS ID Nos 08-032, 08-333, 08-068
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule D

Fair Value Rate Base, Revenue & Rate of Return - Decision No. _____

	Per Dec. No XXXXXX	SIB Step 1	SIB Step 2	SIB Step 3	SIB Step 4	SIB Step 5	Total Pro-forma with SIB
Total Operating Revenue *	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operating Expenses	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operations & Maintenance	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Depreciation & Amortization	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Taxes Other than Income	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Income Taxes	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total Operating Expenses	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operating Income	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Rate of Return on Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Authorized Rate of Return on Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*: SIB Revenues in Years 1 -5 are net of 5% Efficiency Credit

SUN CITY WATER

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EXHIBITS

I. GENERAL DESCRIPTION

This document is the Plan of Administration ("POA") for the System Improvement Benefits ("SIB") Mechanism approved for EPCOR Water Arizona Inc's Sun City Water District ("Sun City Water" or "Company") by the Arizona Corporation Commission ("ACC" or "Commission") in Decision No. 75268 on September 8, 2015. The SIB provides for recovery of the capital costs (return on investment, income taxes and depreciation expense) associated with distribution system improvement projects listed in SIB Plant Table I that have been verified to be completed,[1] net of associated retirements and placed in service per SIB Plant Table II and where costs have not been included in rate base for recovery in Decision No. 75268. Any expenditures offset by contributions in aid of construction or advances in aid of construction are not eligible for inclusion of the SIB.

II. DEFINITIONS

- NARUC – National Association of Regulatory Utility Commissioners.
- SIB – System Improvement Benefit mechanism to be implemented between rate proceedings to support investment in plant recorded I SIB Eligible NARUC accounts.
- SIB Eligible Plant – Investments in plant recorded in SIB Eligible NARUC accounts.
- SIB Eligible NARUC accounts:
  - NARUC Account No. 309 – Supply Mains
  - NARUC Account No. 331 – Transmission and Distribution Mains
  - NARUC Account No. 333 – Services
  - NARUC Account No. 334 – Meters and Meter Installations;
  - NARUC Account No. 335 – Hydrants
- SIB Plant Table I (Excerpt attached as Exhibit 1) [2] – The schedule of planned SIB eligible projects that was approved in the Company's most recent rate case. As used

[1] Acceptable form of verifications may include the Maricopa County Environmental Services Department Approval of Construction, Professional Engineer's Certificate of Completion, etc.

[2] See Company filing of March 7, 2014.

herein, this term refers to the most recently updated SIB Plant Table I available unless reference is made to a particular Commission decision.

- SIB Plant Table II – The schedule of completed and verified SIB eligible projects from the latest Commission approved SIB Plant Table I and associated retirements.

- Total Revenue Requirement –The revenue requirement approved in Decision No. 75268, plus the SIB Revenue Requirement.

- SIB Revenue Requirement – The revenue requirement equal to the return on investment, income taxes and depreciation expense necessary to support the SIB Plant Table II amounts.

- SIB Revenue Requirement Efficiency Credit – An amount equal to 5 percent of the SIB Revenue Requirement.

- SIB Authorized Revenue – Amount equal to the SIB Revenue Requirement less the SIB Revenue Requirement Efficiency Credit plus any SIB True up Adjustment.

- Gross SIB Surcharge – Amount to be shown on customers' bills based on meter sizes without consideration to the SIB Surcharge Efficiency Credit.

- SIB Surcharge Efficiency Credit – An amount equal to 5 percent of the Gross SIB Surcharge to be shown on customers' bills.

- SIB Surcharge - The amount equal to the Gross SIB Surcharge less the SIB Surcharge Efficiency Credit to be charged, based on meter size, calculated to recover the SIB Authorized Revenue. The SIB Surcharge is to be shown as a separate line item on customers' bill.

- SIB True- up Adjustment – An amount to adjust for over- or under-collection of the SIB Authorized Revenues as compared with the total SIB Surcharges collected for the preceding 12 month period. Each SIB true-up shall also analyze the cumulative over- or under-collections to include a comparison of all past SIB Authorized Revenues, total SIB Surcharge collections, and prior true-ups to be used in calculation of the SIB true-up surcharge or credit by meter size,

III. SIB RELATED FILINGS

A. Progress Reports – Once a SIB is approved in a decision, the Company must file with Docket Control semi-annual status reports delineating the status of all SIB Eligible Plant, on a project by project basis as listed in the latest Commission approved SIB

Plant Table I. The initial semi-annual status report shall include only those projects from the initial SIB Plant Table I which the Company has designated as most likely to be completed in the first 12 months.

B. Reconciliation and True Up - Once a SIB Surcharge is implemented, the Company must file annually to true up its SIB Surcharge collections over the preceding twelve months with the SIB Authorized Revenue for that period and establish a surcharge or credit to true up over or under collections, regardless of whether it seeks a new surcharge. The filing dates for these annual true-ups shall be as established in the Commission's Decision approving the SIB Surcharge.

C. SIB Surcharge Requests- To obtain its SIB Surcharge the Company must file the following:

1. SIB Plant Table II[3] (with supporting information and documentation), showing the SIB eligible projects completed for which the Company seeks cost recovery. Such projects must:

    a. be projects listed in the SIB Plant Table I;

    b. have been completed by the Company;

    c. have been verified; and

    d. be actually serving customers.

2. A summary of Commission approved SIB-eligible projects contemplated for the next twelve (12)-month SIB surcharge period from SIB Plant Table I[4] from Decision No. 75268 to allow the Commission to establish the latest SIB Plant Table I.

3. SIB Schedule A (sample attached as Exhibit 3), showing a calculation of the SIB Revenue Requirement and SIB Revenue Requirement Efficiency Credit, SIB Authorized Revenue, Gross SIB Surcharge, SIB Surcharge Efficiency Credit, and the SIB Surcharge. Schedule A shall be supported by revenue requirements

[3] Sample attached as Exhibit 2

[4] Beginning with its SIB Surcharge Request filing for the second 12-month surcharge period, the Company may request a change from the estimated Cost/Unit (approved in the Company's most recent rate case Decision) due to inflation using the latest calendar year Consumer Price Index (see sample attached as Exhibit 1). This may be done only if the original SIB Plant Table I unit cost did not account for inflation.

schedules supporting the revenue requirements in Decision No. 75268 and the pro-forma revenue requirements including the effects of SIB Eligible Plant.

4. Schedule B (sample attached as Exhibit 4) showing the overall SIB True- up Adjustment calculation for the prior twelve-month SIB Surcharge period, as well as the individual SIB True-up Adjustment for each meter size.

5. SIB Schedule C (sample attached as Exhibit 5) showing the effect of the SIB Surcharge on a typical residential customer bill for both median and average usage.

6. SIB Schedule D (sample attached as Exhibit 6) which shall include an analysis of the impact of completed SIB Eligible Plant projects on the fair value rate base, revenue, and the fair value rate of return. The Company shall also file the following as part of SIB D Schedule:

   a. the most current balance sheet at the time of the filing;

   b. the most current income statement;

   c. an earnings test;

   d. a rate review schedule (including the incremental and pro forma effects of the proposed increase);

   e. an adjusted rate base schedule; and

   f. a Construction Work in Progress ledger for each project showing accumulation of charges by month and paid contractor invoices including a summary page showing the calculation of the SIB eligible rate base and depreciation expense net of associated retirements

D. The Company will maintain and provide to the Commission's Utilities Division (Staff) and the Residential Utility Consumer Office (RUCO) schedules in Microsoft Excel format (with all formulae intact) supporting the revenue requirement approved in Decision No. 75268, and the effects of completed SIB eligible plant for the current SIB Surcharge Request and any previously approved SIB Surcharge and SIB True-up Adjustment Requests.

E. The Company may make its initial SIB Surcharge Request through Docket Control no earlier than twelve months after the entry of Decision No.75268.

F. The Company may make no more than one SIB Surcharge Request every twelve months with no more than five SIB Surcharge Requests between rate case decisions. A True-up must be filed with each SIB Surcharge Request, except the first.

G. Unless otherwise authorized by the Commission, the Company shall be required to file its next general rate case no later than June 30, 2021, with a test year ending no later than December 31, 2020.

H. Any SIB Surcharges that are in effect shall be reset to zero upon the date new rates become effective in the Company's next general rate case.

IV. SURCHARGE CALCULATIONS

A. Calculations of Amounts to Be Collected By the SIB Surcharge

1. The amount to be collected by the SIB Authorized Revenue shall be equal to the SIB Revenue Requirement minus the SIB Revenue Requirements Efficiency Credit plus any SIB True up Adjustment.

   For purposes of calculation the SIB Revenue Requirement:

   a. The required rate of return is equal to the overall rate of return authorized in Decision No. 75268.

   b. The gross revenue conversion factor/tax multiplier is equal to the gross revenue conversion factor/tax multiplier approved in Decision No. 75268; and

   c. The applicable depreciation rate(s) is equal to the depreciation rate(s) approved in Decision No. 75268.

2. The SIB plant unit cost to be used in calculating the SIB Revenue Requirement shall be the lesser of the installed SIB plant unit cost listed in SIB Plant Table II or 110 percent of the SIB plant estimated unit cost listed in the latest Commission approved SIB Plant Table I.

3. The amount to be collected by each SIB Surcharge Request shall be capped annually at five percent of the revenue requirement authorized in Decision No. 75268.

B. Reconciliation And True-Ups

1. The revenue collected by the total SIB Surcharges over the preceding twelve months shall be trued-up and reconciled with the SIB Authorized Revenue for that period.

2. A new SIB Surcharge shall be combined with an existing SIB Surcharge such that a single SIB surcharge and SIB Efficiency Credit are shown on a customer's bill.

3. For each twelve (12) month period that a SIB surcharge is in effect, the Company shall reconcile the amounts collected by the SIB Surcharge with the SIB Authorized Revenue, for that twelve (12)-month period, consistent with Schedule B, attached hereto as Exhibit 4.

4. Any under- or over-collected SIB Authorized Revenues shall be recovered or refunded, without interest, over a twelve-month period by means of a SIB True-up Surcharge or Credit.

5. Starting with the second annual SIB Surcharge, where there are over- or under-collected balances, such over- or under-collected balances shall be carried over to the next year, and considered in the calculation of the new SIB True-up Surcharge or Credit. If, after the five-year period there remains an over- or under-collected balance, such balance shall be reset to zero, and addressed in the next rate case.

C. Earnings Test

1. Once a SIB Surcharge is in effect, the Company shall be required to perform an annual earnings test calculation for each SIB Surcharge Request to determine whether the actual rate of return reflected by the operating income for the affected system or division for the relevant 12- month period exceeded the most recently authorized fair value rate of return for the affected system or division.

2. The earnings test shall be:

   a. based on the most recent available operating income,

   b. adjusted for any operating revenue and expense adjustments adopted in the most recent general rate case; and

   c. based on the rate base adopted in the most recent general rate case, updated to recognize changes in plant, accumulated depreciation, contributions in aid of construction, advances in aid of construction, and accumulated deferred income taxes through the most recent available financial statement (quarterly or longer).

V. ADDING PROJECTS TO SIB TABLE I UNDER EMERGENCY CIRCUMSTANCES

A. The Company may seek Commission approval to add projects in SIB Plant Table I only in the event of emergency circumstances. No such changes may be made without Commission approval.

B. Any addition to SIB Plant Table I must be plant investment that maintains or improves existing customer service, system reliability, integrity and safety. Eligible plant additions are limited to plant replacement projects. The costs of extending facilities or capacity to serve new customers are not recoverable through the SIB mechanism.

C. To be eligible for SIB treatment, a project must be SIB Eligible Plant.

D. SIB Eligible Plant must satisfy at least one of the following criteria:

1. Water loss for the system exceeds ten (10) percent, as calculated by the following formula: ((Volume of Water Produced and/ or Purchased) - (Volume of Water Sold + Volume of Water Put to Beneficial Use)) divided by (Volume of Water Produced and/or Purchased). If the Volume of Water Put to Beneficial Use is not metered, it shall be established in a reliable, verifiable manner.

2. Plant assets that have remained in service beyond their useful service lives (based on the Company's system's authorized utility plant depreciation rates) and are in need of replacement due to being worn out or in a deteriorating condition through no fault of the Company;

3. Any other engineering, operational or financial justification supporting the need for a plant asset replacement, other than the Company's negligence or improper maintenance, including, but not limited to:

    a. A documented increasing level of repairs to, or failures of, a plant asset justifying its replacement prior to reaching the end of its useful service life (e.g. black poly pipe);

    b. Assets that are required to be moved, replaced or abandoned by a governmental agency or political subdivision if the Company van show that it has made a good faith effort to seek reimbursement for all or part of the costs incurred.

VI. SIB SURCHARGE RATE DESIGN

A. The SIB Surcharge rate design shall be calculated as follows:

1. The SIB Surcharge shall be a fixed monthly surcharge containing a Gross SIB Surcharge and the SIB Surcharge Efficiency Credit as its two components.

2. The SIB Surcharge shall be calculated by dividing the SIB Authorized Revenue by the number of equivalent active 5/8-inch meters at the end of the most recent twelve (12) month period, and shall increase with meter size based on the following meter capacity multipliers:

5/8-inch x 3/4-inch	1.0 times
3/4-inch	1.5 times
l-inch	2.5 times
1 1/2-inch	5 times
2-inch	8 times
3-inch	16 times
4-inch	25 times
6-inch	50 times
8-inch	80 times
10-inch & above	115 times

B. The SIB Surcharge shall apply to all of the Company's metered customers, including private fire service customers.

VII. SIB SURCHARGE NOTICE REQUIREMENTS

A. Thirty days prior to filing each application to implement a SIB Surcharge, the Company shall file a proposed form of notice to Staff for review, and a Summary of what the Company will be requesting in the application. Once the notice is approved by Staff, the Company shall provide a copy of the approved notice to its customers via newsletter or bill insert. After providing notice, the Company shall fie a copy of the notice and a description of when and how it provided notice with each application to implement a SIB surcharge. The Summary and Notice shall include at least the following information:

1. The individual Gross SIB Surcharge, by meter size;

2. The individual SIB Surcharge Efficiency Credit, by meter size;

3. The SIB Surcharge, by meter size; and

4. Directions to where the customer may obtain a summary of the projects included in the current SIB Surcharge request, including a description of each project and its cost.

B. A SIB Surcharge shall not become effective until approved by the Commission.

C. The Company shall provide a proposed order for the Commission's consideration.

D. The Company shall notice its customer of the SIB Surcharge approved herein as soon as possible in a form acceptable to Staff and consistent with the notice requirements of Decision 75268.

E. The Company shall not implement the SIB Surcharge until 30 days after having filed documentation in Docket Control providing the date when all effected customers have been notified of the Commission approved SIB Surcharge.

EXHIBIT 1

SIB Table I

(Exhibit CC-2-B)

EPCOR Water (USA) Inc.

Sun City Water District

PWS ID No. 07-099

February 28, 2014

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 1-1

2015 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-1	333	service lines	42	2-1" 40-1.5"	Copper	1"-$3,881, 1.5"-$3,947	Kelso Dr	12/2015	n/a	$165,634	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (42 total on 107th Dr, 109th Ave, Caron Dr, Denham Dr, Kelso Dr and Mission Ln between 109th Ave and 107 Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-1 in Exhibit CC-1-B for more detail.
S-2	333	service lines	17	1"	Copper	1"-$3,881	Hatcher Rd	12/2015	n/a	$65,974	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (17 total on 109th Dr and Hatcher Rd between Kelso Dr and 107th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-2 in Exhibit CC-1-B for more detail.

S-3	333	service lines	18	14-1.5" 4-2"	Copper	1.5"-$3,947 2"-$4,013	110th Ave	12/2015	n/a	$71,306	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (18 total on 110th Ave and Apartments between Kelso Dr and Mountain View Rd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-3 in Exhibit CC-1-B for more detail.
S-4	333	service lines	16	1.5"	Copper	$3,947	Mountain View Rd	12/2015	n/a	$63,149	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (16 total on Mountain View Rd and Venturi Dr between Cumberland Dr and 107th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-4 in Exhibit CC-1-B for more detail.
S-5	333	service lines	22	1.5"	Copper	$3,947	Cheryl Dr	12/2015	n/a	$86,830	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (22 total on Cheryl Dr, Cinnabar Ave, Cumberland Dr, and Salem Dr between Mountain View Rd and 107th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-5 in Exhibit CC-1-B for more detail..
S-6	333	service lines	5	1.5"	Copper	$3,947	103rd Ave	12/2015	n/a	$19,734	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (5 total on 103rd Ave between Mountain View Rd and Olive Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-6 in Exhibit CC-1-B for more detail.

S-7	333	service lines	11	1.5"	Copper	$3,947	Balboa Dr	12/2015	n/a	$43,415	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (11 total on Balboa Dr between Mountain View Rd and Ironwood Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-7 in Exhibit CC-1-B for more detail.
S-8	333	service lines	24	1.5"	Copper	$3,947	108th Dr	12/2015	n/a	$94,723	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (24 total on 108th Ave, 108th Dr, Clair Dr, Deanne Cir and Peoria Ave between 109th Ave and 107th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-8 in Exhibit CC-1-B for more detail.
S-9	333	service lines	10	1.5"	Copper	$3,947	Clair Dr	12/2015	n/a	$39,468	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (10 total on Clair Dr and Peoria Ave between 111th Ave and 108th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-9 in Exhibit CC-1-B for more detail.
Total			**165**							**$650,232**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 1-2

2017 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-10	333	service lines	11	2-1" 40-1.5"	Copper	1"-$3,881 1.5"-$3,947	105th Dr	12/2017	n/a	$43,415	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (11 total on 105th Ave, 105th Dr, 106th Ave, 106th Dr, Audrey Dr, Clair Dr and Deanne Dr between 107th Ave and 105th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-10 in Exhibit CC-1-B for more detail.
S-11	333	service lines	25	1"	Copper	1"-$3,881	Audrey Dr	12/2017	n/a	$98,670	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (25 total on Audrey Dr, Clair Dr, Corte Del Sol Este, Corte Del Sol Oeste, Deanne Dr and Peoria Ave between 105th Ave and 103 Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-11 in Exhibit CC-1-B for more detail.

S-12	333	service lines	22	14-1.5" 4-2"	Copper	1.5"-$3,947 2"-$4,013	Caron Dr	12/2017	n/a	$86,830	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (22 total on Tonada Dr, Caron Dr, Kelso Dr and109th Dr between 111th Ave and 109th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-12 in Exhibit CC-1-B for more detail.
S-13	333	service lines	14	11-1.5" 3-2"	Copper	1.5"-$3,947 2"-$4,013	Mountain View Rd West	12/2017	n/a	$55,453	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (14 total on 105th Ave, 105th Dr, 107th Ave, Mountain View Rd, Rodgers Cir and Winninger Cir between 107th and 103rd Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-13 in Exhibit CC-1-B for more detail.
S-14	333	service lines	14	1.5"	Copper	$3,947	Mountain View Rd East	12/2017	n/a	$55,255	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (14 total on Mountain View Rd between 103rd Ave and Balboa Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-14 in Exhibit CC-1-B for more detail.
S-15	333	service lines	4	1.5"	Copper	$3,947	Peoria Ave and 103rd Ave	12/2017	n/a	$15,787	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (4 total on Peoria Ave between 103th Ave and 99 Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-15 in Exhibit CC-1-B for more detail.

S-16	333	service lines	8	1.5"	Copper	$3,947	Abbott Ave West	12/2017	n/a	$31,574	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (8 total on Abbott Ave between 111th Ave and 109th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-16 in Exhibit CC-1-B for more detail.
S-17	333	service lines	14	1.5"	Copper	$3,947	Abbott Ave East	12/2017	n/a	$52,255	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (14 total on Abbott Ave and 107th Ave between 109th Ave and 107th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-17 in Exhibit CC-1-B for more detail.
S-18	333	service lines	3	2-1.5" 1-3"	Copper	1.5"-$3,947 3"-$4,145	Peoria Ave and 105th Ave	12/2017	n/a	$12,038	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (3 total on Peoria Ave and 105th Ave between 107th Ave and 105th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-18 in Exhibit CC-1-B for more detail.
S-19	333	service lines	1	1.5"	Copper	$3,947	Peoria Ave and 99th Ave	12/2017	n/a	$3,947	Replace aging service with copper service line to reduce water leaks and emergency repairs. (1 total on Peoria Ave between 99th Ave and 96th Ave.) This service is a priority because it was installed 40 to 50 years ago. Replacing the service will help reduce system water loss and improve customer pressure and flow. The service line replacement is for existing customers and not related to new growth. See Section 1 narrative and Map No. S-19 in Exhibit CC-1-B for more detail.
S-20	333	service lines	3	1.5"	Copper	$3,947	Snead Circle	12/2017	n/a	$11,840	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (3 total on Sneed Circle west of 103 Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-20 in Exhibit CC-1-B for

											more detail.
S-21	333	service lines	10	1.5"	Copper	$3,947	Coggins Dr	12/2017	n/a	$39,468	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (10 total on Coggins Dr and Lakeview Cir between Sun City Blvd and Balboa Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-21 in Exhibit CC-1-B for more detail..
S-22	333	service lines	1	1.5"	Copper	$3,947	99th Ave	12/2017	n/a	$4,145	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (1 total on 99th Ave between Sun City Blvd and Peoria Ave.) This service is a priority because it was installed 40 to 50 years ago. Replacing the service will help reduce system water loss and improve customer pressure and flow. The service line replacement is for existing customers and not related to new growth. See Section 1 narrative and Map No. S-22 in Exhibit CC-1-B for more detail.
S-23	333	service lines	4	1.5"	Copper	$3,947	111th Ave South	12/2017	n/a	$15,787	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (4 total on 111th Ave between Elk Ave and Iowa Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-23 in Exhibit CC-1-B for more detail.
S-24	333	service lines	8	1.5"	Copper	$3,947	107th Ave South	12/2017	n/a	$31,574	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (8 total on 107th Ave between Connecticut Ave and Elk Ave and Hope Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-24 in Exhibit CC-1-B for more detail.

S-25	333	service lines	5	1.5"	Copper	$3,947	111th Ave North	12/2017	n/a	$19,734	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (5 total on 111th Ave and Alabama Ave between Elk Ave and Cherry Hills Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-25 in Exhibit CC-1-B for more detail.
S-26	333	service lines	12	1.5"	Copper	$3,947	107th Ave North	12/2017	n/a	$47,362	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (12 total on 107th Ave and Alabama Ave between Pebble Beach Dr and Connecticut Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-26 in Exhibit CC-1-B for more detail.
S-27	333	service lines	8	1.5"	Copper	$3,947	Alabama Ave and 107th Ave	12/2017	n/a	$31,574	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (8 total on 107th Ave and Alabama Ave between Cherry Hills Dr and 105th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-27 in Exhibit CC-1-B for more detail.
S-28	333	service lines	10	1.5"	Copper	$3,947	Alabama Ave at Thunderbird	12/2017	n/a	$39,468	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (10 total on Alabama Ave and 103th Ave between 105th Ave and Oakmont Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-28 in Exhibit CC-1-B for more detail.

S-29	333	service lines	7	1.5"	Copper	$3,947	Alabama Ave at Coggins	12/2017	n/a	$27,628	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (7 total on Alabama Ave between 103rd Ave and 99th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-29 in Exhibit CC-1-B for more detail.
S-30	333	service lines	27	14-1.5" 13-2"	Copper	1.5"-$3,947 2"-$4,013	Coggins Dr	12/2017	n/a	$107,422	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (27 total on Coggins Dr and Windsor Dr between 111th Ave and 108th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-30 in Exhibit CC-1-B for more detail.
S-31	333	service lines	10	8-1.5" 2-2"	Copper	1.5"-$3,947 2"-$4,013	Oakmont Dr West	12/2017	n/a	$39,600	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (10 total on Oakmont Dr, 107th Ave and 108th Ave between Grand Ave and Cherry Hills Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-31 in Exhibit CC-1-B for more detail.
S-32	333	service lines	14	6-1.5" 8-2"	Copper	1.5"-$3,947 2"-$4,013	Oakmont Dr East	12/2017	n/a	$55,783	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (14 total on 105th Ave, Coggins Dr and Oakmont Dr between 107th Ave and 105th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-32 in Exhibit CC-1-B for more detail.

S-33	333	service lines	21	5-1.5" 16-2"	Copper	1.5"-$3,947 2"-$4,013	Newcastle Dr	12/2017	n/a	$83,939	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (21 total on Emerald Dr, Garden Court , Newcastle Dr, Silverbell Dr and Thunderbird Blvd between Emerald Dr and 111th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-33 in Exhibit CC-1-B for more detail.
S-34	333	service lines	25	4-1.5" 20-2" 1-2.5"	Copper	1.5"-$3,947 2"-$4,013 2.5"-$4,079	Santa Fe Dr West	12/2017	n/a	$100,122	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (25 total on 109th Ave, 110th Ave, 111th Ave, Santa Fe Dr and Thunderbird Blvd between 111th Ave and 109th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-34 in Exhibit CC-1-B for more detail.
S-35	333	service lines	32	10-1.5" 22-2"	Copper	1.5"-$3,947 2"-$4,013	Santa Fe Dr East	12/2017	n/a	$127,750	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (32 total on 108th Ave, 108th Dr, Santa Fe Dr and Thunderbird Blvd between 109th Ave and Del Webb Blvd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-35 in Exhibit CC-1-B for more detail.
Total			**313**							**$1,241,420**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 1-3

2018 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-36	333	service lines	11	5-1.5" 5-2" 1-3"	Copper	1.5"-$3,947 2"-$4,013 3"-$4,145	Thunderbird Blvd	12/2018	n/a	$43,943	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (11 total on 105th Ave and Thunderbird Blvd between Del Webb Blvd and 103rd Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-36 in Exhibit CC-1-B for more detail.
S-37	333	service lines	9	7-1.5" 2-2"	Copper	1.5"-$3,947 2"-$4,013	Royal Oak Rd South	12/2018	n/a	$31,640	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (9 total on 103rd Ave, 99th Ave and Santa Fe Dr between 103rd Ave and 99th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-37 in Exhibit CC-1-B for more detail.

S-38	333	service lines	39	2-1.5" 37-2"	Copper	1.5"-$3,947 2"-$4,013	Royal Oak Rd North	12/2018	n/a	$156,367	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (39 total on 100th Ave, 100th Dr, 99th Dr, Cedar Dr, Forrester Dr, Royal Oak Rd and Thunderbird Blvd between Thunderbird Bld and 99th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-38 in Exhibit CC-1-B for more detail.
S-39	333	service lines	22	3-1.5" 19-2"	Copper	1.5"-$3,947 2"-$4,013	Hawthorn Dr	12/2018	n/a	$88,084	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (22 total on 100th Ave, Emberwood Dr, Hawthorn Dr and Thunderbird Blvd between Forrester Dr and Lancaster Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-39 in Exhibit CC-1-B for more detail.
S-40	333	service lines	14	1.5"	Copper	$3,947	Candlewood Dr	12/2018	n/a	$55,255	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (14 total on Royal Oak Rd and Candlewood Dr between 103rd Ave and Thunderbird Blvd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-40 in Exhibit CC-1-B for more detail.
S-41	333	service lines	5	1.5"	Copper	$3,9477	Bolivar Dr	12/2018	n/a	$19,734	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (5 total on Bolivar Dr and Crown Pt between 103rd Ave and Teakwood Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-41 in Exhibit CC-1-B for more detail.

S-42	333	service lines	17	1.5"	Copper	$3,947	Tumble-brook Way	12/2018	n/a	$67,096	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (17 total on 99th Dr, Bolivar Dr, Thunderbird Blvd and Tumblebrook Way between LancasterDr and 99th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-42 in Exhibit CC-1-B for more detail.
S-43	333	service lines	1	1.5"	Copper	$3,947	Thunderbird Ave	12/2018	n/a	$3,947	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (1 total on Thunderbird Rd between Sahara Dr and 93rd Ave.) This service is a priority because it was installed 40 to 50 years ago. Replacing the service will help reduce system water loss and improve customer pressure and flow. The service line replacement is for existing customers and not related to new growth. See Section 1 narrative and Map No. S-43 in Exhibit CC-1-B for more detail.
S-44	333	service lines	18	1-1.5" 17-2"	Copper	1.5"-$3,947 2"-$4,013	Newcastle Dr	12/2018	n/a	$72,164	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (18 total on Cameo Dr, Desert Butte Dr, Newcastle Dr, PalmRidge Dr and Thunderbird Blvd between Cameo Dr and Emerald Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-44 in Exhibit CC-1-B for more detail.
S-45	333	service lines	24	8-1.5" 16-2"	Copper	1.5"-$3,947 2"-$4,013	Palm Ridge Dr	12/2018	n/a	$95,779	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (24 total on 111th Ave, Cameo Dr and Palm Ridge Dr between Thunderbird Blvd and 111th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-45 in Exhibit CC-1-B for more detail.

S-46	333	service lines	20	6-1.5" 14-2"	Copper	1.5"-$3,947 2"-$4,013	Topaz Dr	12/2018	n/a	$79,860	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (20 total on 109th Ave, 110th Ave, Cameo Dr and Topaz Dr between 111th Ave and 109th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-46 in Exhibit CC-1-B for more detail.
S-47	333	service lines	33	8-1.5" 25-2"	Copper	1.5"-$3,947 2"-$4,013	108th Dr	12/2018	n/a	$131,894	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (33 total on 107th Dr, 108th Dr, Buccaneer Dr, Cameo Dr and Emerald Dr between 109th Ave and 107th Ln.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-47 in Exhibit CC-1-B for more detail.
S-48	333	service lines	8	7-1.5" 1-2"	Copper	1.5"-$3,947 2"-$4,013	Buccaneer Dr	12/2018	n/a	$31,640	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (8 total on Bayside Rd, Buccaneer Way and Del Webb Blvd between Cameo Dr and Buccaneer Way.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-48 in Exhibit CC-1-B for more detail.
S-49	333	service lines	32	1.5"	Copper	$3,947	Tropicana Cir South	12/2018	n/a	$126,298	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (32 total on Del Webb Blvd, Saratoga Cir and Tropicana Cir between Del Webb Blvd and Talisman Rd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-49 in Exhibit CC-1-B for more detail.

S-50	333	service lines	22	1.5"	Copper	$3,947	Tropicana Cir North	12/2018	n/a	$86,830	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (22 total on Del Webb Blvd, Saratoga Cir and Tropicana Cir between Del Webb Blvd and Talisman Rd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-50 in Exhibit CC-1-B for more detail.
S-51	333	service lines	41	1.5"	Copper	$3,947	El Capitan Cir	12/2018	n/a	$161,819	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (41 total on Camelot Cir, Del Webb Blvd, El Capitan Cir and Roundelay Cir between Del Webb Blvd and Talisman Rd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-51 in Exhibit CC-1-B for more detail.
Total			**316**							**$1,256,363**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 1-4

2019 Service Line Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
S-52	333	service lines	10	5-1.5" 5-2"	Copper	1.5"-$3,947 2"-$4,013	Del Webb Blvd	12/2019	n/a	$39,798	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (10 total at the intersection of Del Webb Blvd, Thunderbird Blvd and Talisman Rd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-52 in Exhibit CC-1-B for more detail.
S-53	333	service lines	49	1.5"	Copper	1.5"-$3,947	Saratoga Circle	12/2019	n/a	$193,393	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (49 total on Camelot Cir, El Capitan Cir, Roundelay Cir, Saratoga Cir and Tropicana Cir between Del Webb Blvd and Talisman Rd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-53 in Exhibit CC-1-B for more detail.

S-54	333	service lines	41	1.5"	Copper	1.5"-$3,947	Kingswood Cir West	12/2019	n/a	$161,819	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (41 total on Bright Angel Cir, Desert Forest Cir, Kingswood Cir and Prairie Hills Cir between Talisman Rd and Boswell Blvd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-54 in Exhibit CC-1-B for more detail.
S-55	333	service lines	43	42-1.5" 1-2"	Copper	1.5"-$3,947 2"-$4,013	Kingswood Cir East	12/2019	n/a	$169,778	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (43 total on Bright Angel Cir, Desert Forest Cir, Kingswood Cir and Prairie Hills Cir between Boswell Blvd and 103rd Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-55 in Exhibit CC-1-B for more detail.
S-56	333	service lines	53	49-1.5" 4-2"	Copper	1.5"-$3,947 2"-$4,013	Shasta Dr	12/2019	n/a	$209,444	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (53 total on Boswell Blvd, Desert Rose Dr, Pleasant Valley Rd, Sandstone Dr and Shasta Dr between Boswell Blvd and 99th Ave.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-56 in Exhibit CC-1-B for more detail.
S-57	333	service lines	44	42-1.5" 2-2"	Copper	1.5"-$3,947 2"-$4,013	Prairie Hills Cir	12/2019	n/a	$173,791	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (44 total on 103rd Ave, Boswell Blvd, Kingswood Cir, Newport Dr, Pineridge Dr, Prairie Hills Cir, Raintree Dr and Spruce Dr between 103rd Ave and Boswell Blvd.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-57 in Exhibit CC-1-B for more detail.

S-58	333	service lines	50	49-1.5" 1-2"	Copper	1.5"-$3,947 2"-$4,013	Sandstone Dr	12/2019	n/a	$197,406	Replace aging services with copper service lines to reduce water leaks and emergency repairs. (50 total on Cameo Dr, Lakeforest Dr, Long Hills Dr, Sandstone Dr and Shasta Dr between 99th Ave and Cameo Dr.) The services are old and are failing at a high rate. These services are a priority because they are galvanized steel pipe and they were installed 40 to 50 years ago. Galvanized pipe is prone to corrosion and has abeen shown to have a useful life of less than 40 years. Replacing the services will help reduce system water loss and improve customer pressure and flow. The service line replacements are for existing customers and not related to new growth. See Section 1 narrative and Map No. S-58 in Exhibit CC-1-B for more detail.
Total			**290**							**$1,145,430**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 2-1

2015 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-1	331	gate valves	16	3-4" 10-6" 2-8" 1-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173	Youngtown and area north of Grand Ave between 95th Ave and 115th Ave (see map V-1 for detail)	12/2015	n/a	$76,375	Replace 3-4", 10-6", 2-8", and 1-12" (estimated 16 total) distribution system valves that are no longer functioning. Approximately 20% of the valves will be tested annually. Valves found broken as a part of the annual valve maintenance program will be replaced. Over 42% of the valves in the system are over 40 years old. In the last year, approximately 2% of valves tested were found to be inoperable or broken. The same replacement rate is expected with this project. Replacing the valves decreases time required to shutdown water mains in the event of main break or other system maintenance, which reduces customer service disruption and decreases water loss during main breaks. The valve replacements are not related to new growth. See Section 2 narrative and Map V-1 in Exhibit CC-1-B for more detail.
Total			**16**							**$76,375**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 2-2

2016 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-2	331	gate valves	16	1-4" 8-6" 5-8" 1-12" 1-16"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173 16"-$7,603	Tierra Del Rio, Agua Fria Ranch, and the area south of Bell Rd between 99th Ave and 111th Ave (see map V-2 for detail)	12/2016	n/a	$81,418	Replace 1-4", 8-6", 5-8", 1-12", and 1-16" (estimated 16 total) distribution system valves that are no longer functioning. Approximately 20% of the valves will be tested annually. Valves found broken as a part of the annual valve maintenance program will be replaced. Over 42% of the valves in the system are over 40 years old. In the last year, approximately 2% of valves tested were found to be inoperable or broken. The same replacement rate is expected with this project. Replacing the valves decreases time required to shutdown water mains in the event of main break or other system maintenance, which reduces customer service disruption and decreases water loss during main breaks. The valve replacements are not related to new growth. . See Section 2 narrative and Map V-2 in Exhibit CC-1-B for more detail.
Total			**16**							**$81,418**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 2-3

2017 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-3	331	gate valves	16	1-4" 8-6" 5-10" 2-12"	cast iron with rubberized epoxy coating	4"-$4,431 8"-$5,201 12"-$6,173	Coyote Lakes, Citrus Point, and area west of 99th Ave between Union Hills and Bell Rd (see map V-3 for detail)	12/2017	n/a	$82,188	Replace 1-4", 8-6", 5-10", and 2-12" (estimated 16 total) distribution system valves that are no longer functioning. Approximately 20% of the valves will be tested annually. Valves found broken as a part of the annual valve maintenance program will be replaced. Over 42% of the valves in the system are over 40 years old. In the last year, approximately 2% of valves tested were found to be inoperable or broken. The same replacement rate is expected with this project. Replacing the valves decreases time required to shutdown water mains in the event of main break or other system maintenance, which reduces customer service disruption and decreases water loss during main breaks. The valve replacements are not related to new growth. . See Section 2 narrative and Map V-3 in Exhibit CC-1-B for more detail.
Total			**16**							**$82,188**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 2-4

2018 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-4	331	gate valves	16	2-4" 12-6" 2-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 12"-$6,173	Area east of 99th Ave between Thunderbird and Union Beardsley and east of 99th Ave north of Beardsley (see map V-4 for detail)	12/2018	n/a	$77,018	Replace 2-4", 12-6", and 2-12" (estimated 16 total) distribution system valves that are no longer functioning. Approximately 20% of the valves will be tested annually. Valves found broken as a part of the annual valve maintenance program will be replaced. Over 42% of the valves in the system are over 40 years old. In the last year, approximately 2% of valves tested were found to be inoperable or broken. The same replacement rate is expected with this project. Replacing the valves decreases time required to shutdown water mains in the event of main break or other system maintenance, which reduces customer service disruption and decreases water loss during main breaks. The valve replacements are not related to new growth. . See Section 2 narrative and Map V-4 in Exhibit CC-1-B for more detail.
Total			**16**							**$77,018**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 2-5

2019 Valve Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
V-5	331	gate valves	16	1-4" 5-6" 7-8" 3-12"	cast iron with rubberized epoxy coating	4"-$4,431 6"-$4,651 8"-$5,201 12"-$6,173	Area between Grand Ave and Olive Ave and between 111th Ave/127th Ave and the Agua Fria Wash (see map V-5 for detail)	12/2019	n/a	$82,610	Replace 1-4", 5-6", 7-8", and 3-12" (estimated 16 total) distribution system valves that are no longer functioning. Approximately 20% of the valves will be tested annually. Valves found broken as a part of the annual valve maintenance program will be replaced. Over 42% of the valves in the system are over 40 years old. In the last year, approximately 2% of valves tested were found to be inoperable or broken. The same replacement rate is expected with this project. Replacing the valves decreases time required to shutdown water mains in the event of main break or other system maintenance, which reduces customer service disruption and decreases water loss during main breaks. The valve replacements are not related to new growth. . See Section 2 narrative and Map V-5 in Exhibit CC-1-B for more detail.
Total			**16**							**$82,610**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 3-1

2015 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-1	331	Mains	5,786 LF	2,842 LF-4" 2,944 LF-8"	PVC	$174	115th Dr, in north 1/3 of Coyote Lakes	12/2015	n/a	$1,005,087	Replace existing mains with 2,842 LF of 4" main and 2,944 LF of 8" main in 115th Dr and adjacent cul-de-sacs in the northern 1/3 of the Coyote Lakes development. The mains were installed in native soil which has resulted in several leaks due to rocks puncturing and cracking the pipe. Due to the high flows and pressures in this area, main breaks result in large amounts of lost water. Replacing the mains will help reduce system water loss and improve system reliability. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-1 in Exhibit CC-1-B for more detail.
Total			**5,786 LF**							**$1,005,087**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 3-2

2016 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-2	331	Mains	12,869 LF	4,871 LF-4" 832 LF-6" 6,004 LF-8" 1,170 LF-12"	PVC	$131	115th Dr, Coyote Lakes Pkwy, in south 2/3 of Coyote Lakes	12/2016	n/a	$1,680,440	Replace existing mains with 4,871 LF of 4", 832 LF of 6", 6,004 LF of 8", and 1,170 LF of 12" main in 115th Dr, in Coyote Lakes Pkwy, and in adjacent cul-de-sacs in the southern 2/3 of the Coyote Lakes development The mains were installed in native soil which has resulted in several leaks due to rocks puncturing and cracking the pipe. Due to the high flows and pressures in this area, main breaks result in large amounts of lost water. Replacing the mains will help reduce system water loss and improve system reliability. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-2 in Exhibit CC-1-B for more detail.
Total			**12,869 LF**							**$1,680,440**	

Sun City -- PWS ID No. 07-099

SIB PLANT TABLE I, 3-3

2017 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-3	331	Mains	3,854 LF	6"	PVC	$122	Cherry Hills Dr/Hillcrest Dr	12/2017	n/a	$471,483	Replace existing main with 3,854 LF of 6"main in Cherry Hills Dr and Hillcrest Dr south of Alabama Ave. The main was installed in 1959 and has broken numerous times in the last 5 years. The pipe material is asbestos-cement, which is known to have a high failure rate as it ages and has not been used in water systems for decades. The existing main is 4" in diameter which cannot support the flows necessary for fire protection. Replacing the mains will help reduce system water loss and improve customer pressure and flow. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-3 in Exhibit CC-1-B for more detail.
Total			**3,854 LF**							**$471,483**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 3-4

2018 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-4	331	Mains	2,633 LF	6"	PVC	$133	Riviera Dr	12/2018	n/a	$349,698	Replace existing main with 2,633 LF of 6"main in Riviera Dr between 103rd Ave and 99th Ave. The main was installed in 1959 and has broken numerous times in the last 5 years. The pipe material is asbestos-cement, which is known to have a high failure rate as it ages and has not been used in water systems for decades. The existing main is 4" in diameter which cannot support the flows necessary for fire protection. Replacing the mains will help reduce system water loss and improve customer pressure and flow. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-4 in Exhibit CC-1-B for more detail.
Total			**2,633 LF**							**$349,698**	

Sun City – PWS ID No. 07-099

SIB PLANT TABLE I, 3-5

2019 Main Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (Estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
WM-5	331	Mains	2,148 LF	6"	PVC	$144	105th Ave	12/2019	n/a	$308,391	Replace existing main with 2,148 LF of 6"main in 105th Ave between Alabama Ave and Desert Hills Dr. The main was installed in 1959 and has broken numerous times in the last 5 years. The pipe material is asbestos-cement, which is known to have a high failure rate as it ages and has not been used in water systems for decades. Replacing the mains will help reduce system water loss and improve customer pressure and flow. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-5 in Exhibit CC-1-B for more detail.
WM-6	331	Mains	1,676 LF	8"	PVC	$159	Oakmont Dr	12/2019	n/a	$266,771	Replace existing main with 1,676 LF of 8"main in Oakmont Dr between 107th Ave and 105th Ave. The main was installed in 1959 and has broken numerous times in the last 5 years. The pipe material is asbestos-cement, which is known to have a high failure rate as it ages and has not been used in water systems for decades. Replacing the mains will help reduce system water loss and improve customer pressure and flow. The main replacement is for existing customers and not related to new growth. See Section 3 narrative and Map No. WM-6 in Exhibit CC-1-B for more detail.
Total			**3,824 LF**							**$575,162**	

Sun City water district – PWS ID No. 07-099

SIB PLANT TABLE I, 4-1

2015 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-1	334	meters	2,100	5/8" to 2"	Copper/ Plastic	5/8"-$173 ¾"-$195 1"-$234 1½"-$367 2"-$447	Meter Routes 128, 202, 203, 204, 205, and 229 (see map M-1 for detail)	12/2015	n/a	$409,508	Replace 1,857 - 5/8", 3 - 3/4", 13 – 1", 218 – 1.5", and 9 – 2" (2,100 total) meters in SC district Meter Routes 128, 202, 203, 204, 205, and 229. The existing meters in these routes will be at least 16 years old when replaced. They are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help keep system water loss below 10%. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map No. M-1 in Exhibit CC-1-B for more detail.
Total			**2,100**							**$409,508**	

Sun City water district – PWS ID No. 07-099

SIB PLANT TABLE I, 4-2

2016 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-2	334	meters	2,071	5/8" to 2"	Copper/ Plastic	5/8"-$173 ¾"-$195 1"-$234 1½"-$367 2"-$447	Meter Routes 135, 206, 211, 216, 227, and 232 (see map M-2 for detail)	12/2016	n/a	$376,982	Replace 1,665 - 5/8", 351 – 3/4", 13 - 1", 24 – 1.5", and 18 – 2" (2,071 total) in SC district meter routes 135, 206, 211, 216, 227, and 232. The existing meters in these routes will be over 12 years old at replacement; meters in routes 227 and 232 will be 17 and 16 years old, respectively. They are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help keep system water loss below 10%. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map No. M-2 in Exhibit CC-1-B for more detail.
Total			**2,071**							**$376,982**	

Sun City water district – PWS ID No. 07-099

SIB PLANT TABLE I, 4-3

2017 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-3	334	meters	2,292	5/8" to 2"	Copper/ Plastic	5/8"-$173 ¾"-$195 1"-$234 1½"-$367 2"-$447	Meter routes 136, 210, 219, 222, 224, 225, and 228 (see map M-3 for detail)	12/2017	n/a	$432,728	Replace 1,762 - 5/8", 398 - 3/4", 12 – 1", 85 – 1.5", and 35 – 2" (2,292 total) meters in SC district meter routes 136, 210, 219, 222, 224, 225, and 228. The existing meters in these routes will be between 12 and 13 years when replaced. The meters are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help keep system water loss below 10%. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map No. M-3 in Exhibit CC-1-B for more detail.
Total			**2,292**							**$432,728**	

Sun City water district – PWS ID No. 07-099

SIB PLANT TABLE I, 4-4

2018 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-4	334	meters	2,784	5/8" to 2"	Copper/ Plastic	5/8"-$173 ¾"-$195 1"-$234 1½"-$367 2"-$447	Meter routes 131, 133, 212, 217, 218, 220, 221, and 231 (see map M-4 for detail)	12/2018	n/a	$534,279	Replace 2,380 - 5/8", 1 - 3/4", 215 – 1", 159 – 1.5", and 29 – 2" (2,784 total) meters in SC district meter routes 131, 133, 212, 217, 218, 220, 221, and 231. The existing meters in these routes will be between 12 and 17 years old when replaced. The meters are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help keep system water loss below 10%. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map No. M-4 in Exhibit CC-1-B for more detail.
Total			**2,784**							**$534,279**	

Sun City water district – PWS ID No. 07-099

SIB PLANT TABLE I, 4-5

2019 Meter Replacements

Information to be included with SIB-Eligible Project Notification

	NARUC Acct No. (DSIC-eligible plant)	Replacement Plant Description (new plant) (DSIC-eligible plant)					Site (location description)	Replacement Plant			1. Provide narrative why Replacement Plant is necessary - replacement of existing plant that has exceeded its designated useful life and has worn out or is in deteriorating condition due to no fault of the utility - replacement of existing plant to address excessive water loss (10% or more) - replacement of existing plant for other reasons supported by persuasive showing by utility 2. Provide narrative explaining why this segment of plant is a priority. 3. Provide narrative explaining how replacing this plant will benefit existing customers. 4. Provide affirmation that Replacement Plant does not include the costs for extending or expanding facilities to serve new customers. 5. Provides reference to related page No. in the submitted detailed Engineering Analysis supporting the need for SIB. Engineering Analysis shall also include narrative explaining the utility's systematic assessment, inspection, maintenance, and repair/replacement program.
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Pipe length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (estimated)		Expected In-Service Date	Estimated Subtotal Cost (by NARUC Acct No)	Estimated Subtotal Cost (by project)	
M-5	334	meters	2,351	5/8" to 2"	Copper/ Plastic	5/8"-$173 ¾"-$195 1"-$234 1½"-$367 2"-$447	Meter routes 207, 208, 209, 213, 214, 215, 223, and 226 (see map M-5 for detail)	12/2019	n/a	$470,906	Replace 2,018 - 5/8", 26 – 1", 277 – 1.5", and 30 – 2" (2,351 total) meters in SC district meter routes 207, 208, 209, 213, 214, 215, 223, and 226. The existing meters in these routes will be 14 years old when replaced. The meters are experiencing a rapid decline in meter accuracy. Prior to replacement, a 10% sample of the route meters will be tested for accuracy. The new meters will help keep system water loss below 10%. The meter replacements are for existing customers and not related to new growth. See Section 4 narrative and Map No. M-5 in Exhibit CC-1-B for more detail.
Total			**2,351**							**$470,906**	

EXHIBIT 2

SIB Table II Template

(Exhibit CC-3-B)

EPCOR Water (USA) Inc.

Sun City Water District

PWS ID No. 07-099

February 28, 2014

Sun City Water - PWS ID No. 07-099

SIB PLANT TABLE II (Page 1 of 2)

Information to be included with SIB-Eligible Completed Project Filings

	NARUC Acct No. (SIB-eligible plant)	Replacement Plant Description (new plant) (SIB-eligible plant)					Site (location description)	Replacement Plant			Original Plant (Plant Being Retired)			
Project No.	**309 Supply Mains** **331 T&D Mains** **333 Services** **334 Meters** **335 Hydrants**	Description	Installed Pipe/Plant Length/ Quantity	Diameter/ Size	Material	Installed Cost/Unit (actual cost)		In-Service Date (provide ADEQ AOC and other related approvals by state and/or federal agencies when applicable)	Subtotal Actual Cost (by NARUC Acct No)	Subtotal Actual Cost (by project)	Actual Retirement Date	Original In-Service Date	Original Cost	Accumulated Depreciation Reserve (as of the actual retirement date)
								Total Actual Cost						

Sun City Water - PWS ID No. 07-099
SIB PLANT TABLE II (Page 2 of 2, Summary)

Information to be included with SIB-Eligible Completed Project Filings

Project No.	Project Description	Estimated Cost (from TABLE I)	Actual Cost	The project cost to be used in calculating the SIB Revenue Requirement shall be the lesser of the actual project cost listed in SIB Plant Table II or 110 percent of the estimated cost listed in SIB Plant Table I as approved in Decision No._____. Unit costs shall be used if actual units constructed are less than estimated in SIB Plant Table I.
Total Cost				

EXHIBIT 3

EPCOR WATER Arizona
Sun City Water PWS ID No. 07-099
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule A

Check if
☐ Consolidated

LINE NO.	CALCULATION OF OVERALL SIB REVENUE REQUIREMENT AND EFFICIENCY CREDIT		
1	Total Authorized Revenue Requirement , Per Decision xxxxx, See Attached Schedules	TBD	
2	SIB Revenue Cap percentage	5%	Per Year
3	SIB Revenue Cap	TBD	
4	SIB Allowed Cost (Per SIB Table II, Summary page, Column 2)	TBD	
5	Total Revenue Requirement, (with pro forma SIB investments). See attached revenue requirements schedules as provided by Company.	TBD	
6	SIB Revenue Requirement (line 5 minus line 1)	TBD	
7	SIB Revenue Requirement Efficiency Credit	5%	
8	SIB True-Up Adjustment (from SIB Schedule B)	TBD	
9	SIB Authorized Revenue (line 6 plus line 7 plus line 8)	TBD	

* Number of Equivalent Meters, below TBD

* Charge per 5/8" meter TBD

	No. of Customers at SIB Cycle Year End	Multipliers	5/8 x 3/4-inch Equivalent Meters	Fixed Surcharge	Annual Rev by Meter Size
5/8 x 3/4-inch	TBD	1	TBD	TBD	TBD
3/4-inch	TBD	1.5	TBD	TBD	TBD
1-inch	TBD	2.5	TBD	TBD	TBD
1 1/2-inch	TBD	5	TBD	TBD	TBD
2-inch	TBD	8	TBD	TBD	TBD
3-inch	TBD	16	TBD	TBD	TBD
4-inch	TBD	25	TBD	TBD	TBD
6 -inch	TBD	50	TBD	TBD	TBD
8 -inch	TBD	80	TBD	TBD	TBD
10-inch	TBD	115	TBD	TBD	TBD
Totals	TBD		TBD		TBD

EXHIBIT 4

EPCOR WATER Arizona
Sun City Water PWS ID No. 07-099
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule B

CALCULATION OF SIB TRUE-UP REVENUE REQUIREMENTS ADJUSTMENT	SIB Filing Sequence				
	SIB year 1*	**SIB year 2**	**SIB year 3**	**SIB year 4**	**SIB year 5**
SIB Authorized Revenue , Per SIB Schedule A	TBD	TBD	TBD	TBD	TBD
Total SIB Surcharges collections for Period	TBD	TBD	TBD	TBD	TBD
SIB True-Up Adjustment	TBD	TBD	TBD	TBD	TBD

Note: The Company shall also provide an analysis of cumulative over or under collections and a net amount to be included in the SIB True-up Adjustment

*SIB year 1 is one year after effective date

EXHIBIT 5

EPCOR WATER Arizona
Sun City Water PWS ID No. 07-099
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule C

TYPICAL BILL IMPACTS
5/8 -Inch Customers

		Step 1			Step 2			Step 3			Step 4			Step 5		
Gallons	Per Dec. No. XXXXX(no SIB Surcharge)	Total Bill w/ SIB Year 1 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 2 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 3 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 4 *	SIB Inc.	Cumulative % Increase	Total Bill w/ SIB Year 5 *	SIB Inc.	Cumulative % Increase
0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
1000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
2000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
3000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
4000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
5000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
6000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
7000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
8000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
9000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
10000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
11000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
12000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
13000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
14000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
15000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
20000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
25000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Median (Cite Usage)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Mean (Cite Usage)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*: Bills in Years 1 -5 are net of Efficiency Credit

EXHIBIT 6

EPCOR WATER Arizona
Sun City Water PWS ID No. 07-099
Decision No. 75268
Effective Date September 1, 2015

SIB Schedule D

Fair Value Rate Base, Revenue & Rate of Return - Decision No. _____

	Per Dec. No XXXXXX	SIB Step 1	SIB Step 2	SIB Step 3	SIB Step 4	SIB Step 5	Total Pro-forma with SIB
Total Operating Revenue *	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operating Expenses	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operations & Maintenance	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Depreciation & Amortization	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Taxes Other than Income	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Income Taxes	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total Operating Expenses	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operating Income	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Rate of Return on Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Authorized Rate of Return on Rate Base	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*: SIB Revenues in Years 1 -5 are net of 5% Efficiency Credit